International Society on Infant Studies

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 MATER 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 several concepts: formation, induction, 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 hal/lines, 10 line illus.
0-19-517200-0 $49.95

Autism: Mind and Brain
Edited by UTA FRIED and ELISABETH 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, the 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 hal/lines & tables
0-19-852924-4 paper $59.50
0-19-852923-6 cloth $139.50

The Cradle of Thought
Exploring the Origins of Thinking
PETER HOBBIN
"There is much to admire in this immensely readable book, and Hobbin is both an outstanding scholar and passionate about his subject. His humane and critical 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, Nature
"How does a child develop the capacity to think? In particular, how does it develop a sense of self, of the existence of other persons with minds of their own, and of its relationship to these others? ... For Hobbin, the key lies in that word, relationship. Any parent reading his account will recognize it makes sense."
—Steven Rose, Sunday Times (London)
2004 304 pp.
0-19-521954-6 $45.00

What Is Language Development?
Rationalist, Empiricist, and Pragmatist Approaches to the Acquisition of Syntax
JAMES R. RUSSELL
This is the first balanced account of the key competing theories of language development in one integrated volume. The book is suitable for students and researchers interested in language to evaluate the competing theories and form their own opinions.
September 2004 204 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. GEIMAN
"Susan Gelman's The Essential Child is both deep and accessible. She does the field a great service just by putting together her truly remarkable research program into one integrated story. In doing so, she shows how a data set that supports 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. Anyone concerned with understanding conceptual development and everyday reasoning 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)
2004 300 pp. 19 hal/lines & line illus.
0-19-515406-1 $49.95

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 categorizing 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 252 pp.; 11 hal/lines & line illus.
0-19-514793-4 cloth $70.00
0-19-514794-2 paper $35.00

The World of Deaf Infants
A Longitudinal Study
Edited by KATHRYN P. MEADOW-ORLANS, PATRICIA E. SPENCER, DONALD F. MOORE, LYNN S. ISKJELSTROM, 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 OPPENHEIM
2003 407 pp.; 14 line illus.
0-19-515404-5 $39.95

Applied Longitudinal Data Analysis
Modeling Change and Event Occurrence
JUDITH D. SINGER and JOHN B. WILETT
2003 671 pp.; 81 line illus.
0-19-515296-4 $65.00

A Choice Outstanding Academic Title for 2002
The Cultural Nature of Human Development
BARBARA KOGON
2003 446 pp.; 73 hal/lines & line illus.
0-19-515133-9 $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.
ICIS 2004, Chicago

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 Savelsbergh, 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 2004
XIV BIENNIAL

Registration Hours

Wednesday: 9:00am - 5:00pm
Thursday: 9:00am - 5:00pm
Friday: 9:00am - 12:00pm

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:

Wednesday: 11:00am - 5:30pm
Thursday: 9:00am - 5:00pm
Friday: 9:00am - 5:00pm
Saturday: 9:00am - 5:00pm

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.
## Conference Schedule at a Glance

### Wednesday, May 6, 2004

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<td>8:00-10:30 <strong>Touch Research Institute</strong> (PP, SP, OP)</td>
<td>8:00-11:00 Les Cohen's &quot;Habit 2000&quot; meeting (PP)</td>
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<td>11:00</td>
<td>11:00-12:50 Symposium <strong>Aslin</strong> The Language/Phonetic Interface in Infancy: Coping With Multiple Sources Of Variability (PP)</td>
<td>11:00-12:50 Symposium <strong>Messinger</strong> Infant Smiles: Production, Perception, and Prediction (PP, OP)</td>
<td>11:00-12:50 Symposium <strong>Waxman</strong> The Conceptual Power of Naming: Categorization, Individuation and Inductive Inference (PP)</td>
<td>11:00-12:50 Dialogue: Autism &amp; theory of mind. <strong>Catherine Lord</strong> and <strong>Helen Tager-Flusberg</strong></td>
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<td>1:00-2:30 WAIMH Symposium <strong>Cabrera and Roggman</strong> The ecology of father involvement: Families, parental involvement, programs and neighborhoods (PP, OP)</td>
<td>1:00-2:30 Symposium <strong>Jones</strong> Is my mommy sad, nervous, or interested in another baby? What maternal mood and direction of attention mean to infants (PP)</td>
<td>1:00-2:30 Symposium <strong>Zelazo</strong> New Perspectives on Autism: The Role of Stress (PP, OP, LCD Projector)</td>
<td>1:00-2:30 Symposium <strong>Balbagonde Renee and Wang</strong> Ceteris-specificity effects in infants' learning and reasoning about events (PP, OP)</td>
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<td>3:00-4:50 Symposium <strong>Lumeng</strong> Two Nutritive Sucking Systems in Human Infants (PP, OP)</td>
<td>3:00-4:50 Symposium <strong>Bendersky</strong> The Relation of Facial Expressions to Emotion Eliciting Situations (PP, SP, OP)</td>
<td>3:00-4:50 Symposium <strong>Courage</strong> Perspectives on Infants' Visual Attention: Developmental Change and Individual Differences (PP)</td>
<td>3:00-4:50 Symposium <strong>Dekel</strong> Embodied Modeling Approaches To Infant Social and Language Development (PP)</td>
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<td>5:00-8:00 Keynote address: <strong>Bennett Berettenthal</strong> Neurobiological perspective on the perception and understanding of actions. Chair: Linda Camras (PP)</td>
<td>6:15-8:00 Welcoming Reception (complimentary hors d'oeuvres and drinks)</td>
<td>7:00-8:30 Eric Corn Dinner (Room to be announced)</td>
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<td>9:00</td>
<td>9:00-10:50 Symposium: Best and Burnham</td>
<td>Infants' Perception of Native and Non-native Vocalic Properties: Vowels and Tones (CP, PP)</td>
<td>9:00-10:50 Symposium: Slaughter</td>
<td>Woodard and Needham: What Infants Learn by Doing (PP)</td>
<td>9:00-10:50 Symposium: Hoflich</td>
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<td>10:00-11:50 Symposium: Lisowski and Carpenter: Pointing in Infancy: Functions, Motives, and Their Role in Development (CP, 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 (PP)</td>
<td>11:00-12:50 Symposium: Wexman: Cross-linguistic Perspectives on Acoustically Specific and Language-General Influences (CP, PP)</td>
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<td>11:00-12:50 Symposium: St-James-Roberts: Crying and Colic Among Infants: Receiving and Interpreting Infant States, Forms of Care and Non-Western: Comparative Studies from Five Countries (PP)</td>
<td>12:00-1:00 Symposium: St-James-Roberts: Crying and Colic Among Infants: Receiving and Interpreting Infant States, Forms of Care and Non-Western: Comparative Studies from Five Countries (PP)</td>
<td>1:00-2:50 Symposium: von Hofsten: The Emergence of Predictive Visual Tracking of Temporarily Occluded Moving Objects (PP)</td>
<td>1:00-2:50 Symposium: Pena-Edger: Temporospatial and Self-Regulatory Processes in Cognitive Performance and Social Behavior (PP)</td>
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<td>1:00-2:50 Symposium: St-James-Roberts: Crying and Colic Among Infants: Receiving and Interpreting Infant States, Forms of Care and Non-Western: Comparative Studies from Five Countries (PP)</td>
<td>3:00-4:50 Symposium: Johnson: Sensory Categorization (PP)</td>
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<td>3:00-4:50 Symposium: Maurer: Critical Periods Re-e. Examined: Evidence from Human Sensory Development (CP, PP)</td>
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<td>5:10-6:15 Keynote Address: Prof. Douglas Wahlsten &quot;Biological Intelligence: An Old Theory Now Frail and Falling&quot; (Chair George F. Meltz) (PP)</td>
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**Re: Lacquer Room**

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<th>Time</th>
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<th>Atrium Room</th>
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<td>5:00</td>
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**ICIS 2004, Chicago**
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<tr>
<th>Time</th>
<th>Adams Room</th>
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<tr>
<td>7:00</td>
<td>7:00-9:00 Breakfast (Complimentary: coffee, tea, juice, fruits, bagels, yogurt, bakery items, etc.)</td>
<td>7:20-8:50 Roundtable Breakfast discussion</td>
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<td>9:00-10:50 Symposium: Cancelled Thelen The Dynamics of Decisions in Infants and Toddlers: Theory and Empirical Applications of the Dynamic Field Model (See program for poster)</td>
<td>9:00-10:50 Symposium: Blick The Nature and Developmental Influences of Caregiving Relationships in Infant-Toddler Child Care (FP)</td>
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<td>8:30-4:00 Posters and Exhibits</td>
<td>1:00-2:50 Symposium: Goldfield Dynamics of Infant Learning (FP)</td>
<td>1:00-2:50 Symposium: Dusek What do infants know about grammatical morphemes? (FP, PC Dell Laptop)</td>
<td>3:00-4:50 Symposium: Baillargasson Raymond Disruptive Behavior Problems in the General Population of Very Young Children (PP, OP, SP)</td>
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Invited Program

Keynote Addresses

A Neurobiological Perspective on the Perception and Understanding of Actions
Bennett Bercelenthal
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) – Sponsored by “Considering Alexander Foundation”
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 Yuko, 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

**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

**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) Sponsored by “Considering Alexander Foundation”

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

Discussant: Marian Willinger

**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 Kaysek

5. Modal and Amodal Completion Processes in Infancy
Michael Kavsek and Laura Hemker
   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 Streri and Gentaz Edouard

We10 Cognition Memory and Learning

9. Discrimination of Large Numbers in Newborn Infants
   Arlette Streri, 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
41. Early Social Communication, Language and Theory of Mind in Children with Autism
     Spectrum Disorder and Adopted Children.
   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
   Henrik 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. Snaitze 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 Garciaaguirre 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
Marianna 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

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

We24 Biological Processes
2. Parent Reports of Infant Sleep Patterns: A Factor Analysis
Catherine Weir, Carol Headley Wetzig and Krista Duke

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 Scofield 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

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

    Gwenden L. Duerer

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

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 Taieb and Nadia Tardif

24. The use of Perspective Cues in a 2D Display by 4-Month-Olds and Adults.
    Myriam Frichet, 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
   Nadjia 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 Steinruweck and Sydney Hans

41. Neurological Examination of Very Low Birth Weight Infants in Neonatal Intensive Care
    Units in Japan; A Questionnaire Analysis
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 Jeffery 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 Hohen 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 Scazzellati*

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 Lacquare Room

**Welcoming Reception**
Opening remarks
6:15 PM – 8:00 PM
Red Lacquare 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 Schömerich, 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,
Discussant: Roberta Golinkoff

**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,*

**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*

**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
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, Zsobia 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 Maroes 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
   Erin 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 Reforggetting 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, Raija 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

**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*

**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*

**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*
Poster session
11:30 AM – 1:30 PM
Empire Room

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?
15. Todders Use Desires to Learn Words
   Megan Saylor and Georgene Troseth

16. Effects of Age and Hearing Loss on Maternal Speech to Normal-Hearing Infants and Hearing-Impaired Infants with Cochlear Implants
   Tonya Bergeson and Rachel Miller

17. One-Year-Olds' Understanding of the Pointing Gesture as a Cue to Subsequent Action
   Claudia Thoermer, Beate Sodian, Ulrike Metz and Barbara Schoepfner

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**Th28 Cognition Memory and Learning**

18. 16-Month-Olds' Understanding of the Link Between Absence and Ignorance
   Claudia Thoermer, Beate Sodian, Ulrike Metz and Carmen Krempel

19. Sleep-Wake Regulation as a Window for Cognitive Development
   Anat Scher, Amnya Miller-Hillel and Eleanor Schneider

20. Five-Month-Olds Do Not See Humans as Material Objects
    Valerie A. Kuhlmeier, Paul Bloom and Karen Wynn

21. Inferring Design by Reading the Mind: Understanding that Artifacts have Particular Functions
    Krista Casler and Deb Kelemen

22. Ratio Abstraction by Human Infants
    Koleen McCrink and Karen Wynn

23. Young Children's Localization of Objects in Occlusion Events: What Does Persistent Search Reveal?
    Wen-Chi Chiang

24. Toddlers' Understanding of Symbolic Relations: Cross-Task Comparison of Reaching and Looking Responses
    Raven Cuellar, Kathy Johnson and Barbara Younger

25. Associations Between Locomotor Experience and Spatial Search Performance in 12-Month-Old Infants
    Denise Adkins, Tiffany Clory and Martha Ann Bell

26. Rethinking the Relation Between Preferential-Looking in the Visual-Paired Comparison Task and Recognition Memory.
    Kelly Snyder

27. Infants’ Reasoning About Others’ Behavior: Using Level 1 Knowledge of Visual Perception
    Yuyan Luo and Renée Baillargeon

28. Chronometric Studies of Numerical Cognition in Five-Month-Old Infants
    Justin Wood and Elizabeth Spelke

29. Infants’ Ability to Associate Specific Causal Roles with Animate and Inanimate Objects
    Virginia Chow and Diane Poulin-Dubois

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**Th29 Social Development**

30. Infant Generalization of Interaction Patterns from Mother to Stranger as a Function of Maternal Depression and Anxiety
    Danielle Kramer-Phelen, Alan Phelen, Beatrice Beebe, Joseph Jaffe and Patricia Cohen

31. Antecedents of the "Beauty is Good" Stereotype: Infants Associate Facial Attractiveness with Positive and Negative Valence
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. Karastik, 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. Garststein 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 Wrobé Biglan

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

Th32 Psychopathology and Developmental Delay
52. The Effects of Responsive Intervention on Young Children with Autism/PDD:  
   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

Th33 Early Environments and Social Policy
54. Rates of Exclusive Breastfeeding Patterns Prior to Hospital Discharge  
   Nancy Aaron Jones

Th34 Undergraduate Research
55. The Role of Infant Sex and Caregiving Context in the Relation Between Infant Temperament and Quality of Maternal Interventions  
   Elizabeth Malessa, Bella Guner, Amie Ashley Hane and Nathan A. Fox
56. The Relation Between Maternal Report of Infant Temperament and Degree of Shared Positive Affect During Mother-Infant Interaction  
   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

Th35 Other
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 Calinou 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  
  *Suneehi 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
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 Riddet 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‘Oдорico Laura and Fabia Franco_

17. Infants’ Discrimination of Affect in Music and Speech  
_Katie Gordon, Seth G 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 Ute 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 Zernbach_

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 Traueble 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 Janssen 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 Wolff 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 Mateic  
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 Rovel, Sarah Roberts, Giuseppe Mirabella and Denice Feig  
44. Visual Attention in Infants Exposed to Insufficient Thyroid Hormone in Utero  
   Joanne Rovel 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. Vlijoen and Joseph L. Jacobson  
47. Maternal Substance Use, Maternal Behavior during Mother-Infant Feeding Interactions  
   and Possible Mediators 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 Maroe and Joel Tourigny

Th48 Psychopathology and Developmental Delay  
Amy Buchanan and Jeannine 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

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

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
Scand 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
Th56 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 Lacquer Room
Friday, May 7, 2004

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

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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 Roslyn Morgan*

Laughter in Maternal Toddler-Directed Speech
*Eva Nwokah*

Discussants: *Ilse De Koeyer*

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**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 Voegtlne and Rebecca Seifert*

Discussant: *Toni Antonucci*

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**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 Beeghly and Edward Z. Tronick*
Is Postnatal Depression a Borderline Condition Impeaching Mother-Infant Interaction?
Gisèle Aptér-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

**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, Helleena 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 Basseante 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

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
11. Joint Attention, Rapid Word-Object Mapping and Vocabulary Outcomes for Recently
    Diagnosed Children with Autism Spectrum Disorders
    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. Zamar
14. Infants’ Ability to Distinguish Vowel Contrasts in a Word Learning Task
    Christopher Fennell and Suzanne Curtain
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, Alison 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

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, Keunjoo 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 Benzman, Lorky Libardian, 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  
Nichele 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

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
51. Infant Massage: Effects on Infants in Ecuadorian and Haitian Orphanages  
Vonda Jump and Jeni Weston
52. Mother-Infant Interaction: Immature Style in Preterm Infants Born < 29 Weeks?  
Julianne Petrie-Thomas and Ruth Eckstein Grunau

Fr18 Psychopathology and Developmental Delay
53. 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-Kaiman

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

**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 Kroze 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. Foursa, 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  
   Minhwaj 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 Brenmer 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 Grunzweig, 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. Woulde*

43. The Helping Relationship in a Doula Support Program for Young Mothers and Their Infants
   *Jon Korfmancher, 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 Hunnius 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 Bavuusuren, Tsogzolmaa Bayandorj, Tom Marshall and Kim Boiler*

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. Stifer

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

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. Moncombe, 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 Grönvist, 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 Savelbergh

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, Tsesi 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

Eleni Kotsoni, Denis Mareschal and Mark H. Johnson

21. Iso-Salient Color and Luminance Information in Object Identification  
Zsuzs 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 Spanimato

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
   Silvia 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. Boizani 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

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

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 Legerstee 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 Lacquer 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 Lacquer Room
Saturday, May 8, 2004

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

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**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-Rosevelt, 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

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

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

Sa09 Motor and Sensorimotor Behavior
1. Bimanual Percussion during the Second Year of Life
   Karen Brakke, Angelica Gunn, Dorothy Fragaszy, Erica Hoy and Kathy Simpson
2. Infants' Motor Milestone Achievements: Its Structure and Correlates with Goal-Directedness
   Katherine H. Grobman, Veena Ramachandran, Emily Grimsrud, Karen Gabel and Rick O. Gilmore
3. Object Banging by Infants with Normal or Impaired Hearing
   Angela Yarnell, Daniel Ashmead and Anne Marie Tharpe
   Jennifer L. Bodnarchuk and Warren O. Eaton
5. Season-of-Birth Patterns in Gross Motor Milestone Attainments
   Warren O. Eaton and Jennifer L. Bodnarchuk

Sa10 Biological Processes
6. The EEG Asymmetry and Infant Handedness
   Tatiana A. Stroganova, Natalia P. Pushina, Elena V. Orekhova, Irina N. Posikera, and Marini M. Tsetline
7. Undifferentiated Auditory Response of the Occipital and Temporal Cortex in Sleeping Infants
   Gentaro Taka, Kayo Asakawa, Hama Watanabe and Keisuke Kushiro

Sa11 Perception and Attention
8. A Preference for Own- Versus Other-Race Faces in Neonates and 3-Month Old Infants?
   David Kelly, Alan Gibson, Mike Smith, Alan Slater and Olivier Pascalis
9. Perception of Motion Transparency in Infancy
   Kanazawa So, Shirai Nobu, Otsuka Yumiko and Yamaguchi Masami
10. Intersensory Redundancy Facilitates Infants’ Perception of Meaning in Speech Passages
    Irina Castellanos, Melissa Shuman and Lorraine Bahrick
11. Behavioral and Psychophysiological Indices of 2- and 4-Month-Old Infants’ Attention to Differing Rates of Infant Directed Speech
    Megan McIlreavy, Naureen Bhullar and Robin P. Cooper
    Dima Amso and Scott Johnson
13. Detail in Phonetic Representation of 6-8 and 10-12 Month-Old French- and English-Learning Infants
    Megha Sundara, Linda Polka and Monika Molnar
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 Gerhardtstein*

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. Pierroutsakos, 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. Pierroutsakos, 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, Henrik 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, Jeannée 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
   Younghhee 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
4:00 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

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**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 Channongkikh*

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, Patrícia Izar and Eduardo Ottoni*
**Poster Session**

11:30 AM – 1:30 PM

Empire Room

### Sa24 Perception and Attention

1. Do Infants Just Follow Their Noses in Coding Spatial Location? Discrimination of Locations not Directly in Front of the Body  
   *Julia Sluzenski and Nora S. Newcombe*

2. Infants’ Emerging Sensitivity to Pointing and Eye Gaze: What’s the Role of Attention?  
   *Camille Wilson-Brune and Amanda L. Woodward*

3. Frequency of Occurrence as a Determinant of Newborn Preference for Previously Unheard Vowel  
   *Ana-Maria Mata-Otero, Michelle Aldridge and T.G.R. Bower*

4. Perceptual Categorization of Forms by Newborns  
   *Ana-Maria Mata-Otero and T.G.R Bower*

### Sa25 Motor and Sensorimotor Behavior

5. Effects of a Fine Motor and Sensory Motor Intervention on the Motor Development of Infants Who Are At-Risk of Developmental Delays  
   *Candice Howard, Mary Rudisill, Samera Baird, Melanie McAlister and Susan Bar*

6. Cerebral Blood Oxygenation Changes over the Occipital and Frontal Cortex during Sucking in Infants - An Optical Topographic Study  
   *Hasegawa Takehiro, Konishi Yukuo, Hirasawa Kyoko, Maki Atsushi and Taga Gentaro*

7. The Structure of Postural Sway in the First Year of Independent Walking: Effects of Experience and Somatosensory Cues  
   *Jason S. Metcalfe, Li-Chiou Chen, Tzu-Yun Chang, John J. Jeka and Jane E. Clark*

8. Manipulation of Actor-Environment Fit on Young Infants  
   *Yu-ping Chen, Linda Fetter, Kenneth G. Holt and Elliot Saltzman*

9. Toddlers in Wonderland: Scale Errors & Self-Understanding  
   *Celia Brownell, Stephanie Zerwas, Geetha Balaraman and Anita Adalja*

### Sa26 Cognition Memory and Learning

10. Through the Looking Glass: Toddlers’ Scale Errors with Self & Dolls  
    *Celia Brownell, Geetha Balaraman, Stephanie Zerwas, Anita Adalja and Melis Sancaktar*

11. Developmental and Individual Differences in Delayed Response Task Performance (A-Not-B task) in 7-12-Month-Old Infant Twins  
    *Natalya P. Pushina, Elena V. Orekhova and Tatiana A. Stroganova*

12. How Speaker and Pronunciation Specific Are the Representations Mediating Priming of Words and Nonwords in Preschoolers?  
    *Barbara Church, Cynthia Fisher and Kyle Chambers*

13. Preschoolers’ Implicit Recognition Memory for Distinctive Versus Typical Female Faces  
    *Catherine A. Best, Mark S. Strauss, Lisa C. Newell, Holly Gastgeb and Matthew C. Costello*
14. Level of Word Knowledge and Vocabulary Size as Predictors of 20-Month-Old Infants’ Comprehension
   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 Shuawairi

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

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**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

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**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 Genaro, 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

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**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

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**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

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**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

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**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 Savelsbergh
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
   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
7. Vagal Nerve Reactivity: A Neural Substrate in the Detection of Arbitrary/Artificial
   Pairings in 3 1/2 Month Old Infants.
   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 Slemen, Dina Amso and Scott P Johnson
14. Optical Neuroimaging Reveals Early Frontal Lobe Activation during Language Exposure
    Heather Borstfeld and Eric Wrucek
15. Limits on the Number of Active Object Indexes in Infancy
    Erik Cheries, Karen Wynn and Brian Scholl
16. Cohesion Violations Disrupt Number
   Erik Charles, Steve Mitroff, Karen Wynn and Brian Scholl
17. A Neonatal Bias for Speech That is Independent of Experience
   Athena Vouloumanos and Janet Werker

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, Zsotia 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

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  
Hana 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

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

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

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**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

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**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 Örnklo, 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
Grand Ballroom
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0 at 2 a, product 2 &

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formular, as described (CE administration)

decide on cancer at 4-6 weeks

Cloud on hypodermic needle

Mammography may be
more significant than the bone
Dear [Recipient],

I wrote this message to express my gratitude for your thoughtful note. Your kind words and concern have touched my heart deeply. Knowing that you care and are there for me during these challenging times fills me with warmth and comfort.

I am grateful for your presence in my life and for the support you offer. Your encouragement and kindness mean more to me than words can express. Please know that I am thinking of you and sending you all my love and blessings.

With admiration and appreciation,

[Your Name]
The International Conference on Infant Studies (ICIS) will be held in Brisbane, Australia, 8 – 11 July 2006, chaired by Curtis Samuels. It should be a memorable and beautiful meeting.

ICIS has coordinated with the ISSBD meetings, which will be held in Melbourne, Australia on 3 – 6 July 2006. July is winter time in Australia (they call it “Down Under”) and this is the ideal season (perfect swimming weather) to visit the Great Barrier Reef, a one hour flight away, which is deservedly one of the natural wonders of the world!

Brisbane, the capital of Queensland, Australia's 'Sunshine State', greets visitors with a warm and friendly welcome. Brisbane is Australia’s only subtropical capital city. Sophisticated yet friendly, downtown Brisbane offers the perfect refuge for locals and visitors alike. Brisbane's surrounding regions boast a feast of spectacular experiences. Refresh in World Heritage-listed rainforest, base on sun-drenched beaches, explore the untouched charm of country towns, head south to the Gold Coast or north to the Sunshine Coast (home to the Crocodile Hunter), cuddle koalas or hand feed dolphins in the wild... all within an hour's reach of downtown.

Convenient access to a complete range of Queensland destinations makes Brisbane the perfect launch pad to a host of other world-renowned attractions including the Daintree and the Great Barrier Reef... all on Brisbane’s doorstep.

Papers, posters, symposium, a daily keynote address, debates, and more will be included. You’ll find fantastic and fresh Australian seafood, wonderful wines, and magnificent scenery.

If you have not been to South Bank (Brisbane), you will find the location exciting (world class art gallery, museum, parks, lands including a kid-safe beach, centre, clean and safe city location, restaurants galore, and river shuttles and boating). ICIS in 2006 is an opportunity for the entire family!
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This new offering in the prestigious Pediatric Round Table series provides current research and implications for clinical practice on the role of social and moral development in toddlers. Edited by Lewis Leavitt, MD and Professor David Hall, the topics in this book include:

- Development of a moral sense
- Early friendships
- Aggression and bullying-victim relationship
- The withdrawn child

This new publication provides a compilation of cutting-edge research from worldwide experts on the power of touch in early childhood. Edited by internationally renowned touch expert, Tiffany Field, PhD, this book addresses topics in:

- Infant massage and its positive effects on premature babies
- How touch and massage significantly reduce infant distress
- The effects of touch deprivation

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