

# ISIS

International Society  
On Infant Studies

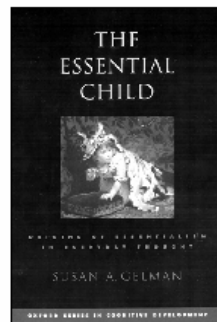
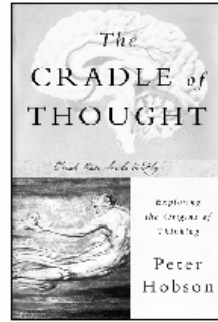
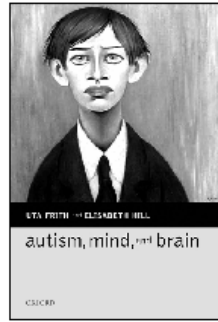
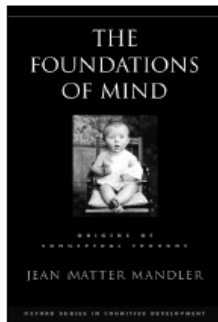
**14<sup>th</sup> Biennial  
International Conference on  
Infant Studies**



Chicago, Illinois  
May 05-08, 2004

ORGANIZERS:  
Dr. George F. Michel &  
Dr. Linda Camras





### The Foundations of Mind

The Origins of Conceptual Thought  
JEAN MATTER MANDLER

This book offers a theory of how human conceptual life begins, and shows how perceptual information becomes transformed into concepts. Drawing on extensive research, Mandler describes the development of preverbal concept formation, inductive inference, and recall, and explains how these processes form the conceptual basis for language and adult thought.  
(Oxford Series in Cognitive Development)  
2004 376 pp.; 5 halftones, 10 line illus.  
0-19-517200-0 \$49.95

### Autism: Mind and Brain

Edited by UTA FRITH and 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 way forward for future research, and presents new techniques for understanding this disorder.  
2004 322 pp.; 41 halftones & line illus.  
0-19-852924-4 paper \$59.50  
0-19-852923-6 cloth \$139.50

### The Cradle of Thought

Exploring the Origins of Thinking  
PETER HOBSON  
"There is much to admire in this immensely readable book, and Hobson is both an outstanding scholar and passionate about his subject. His human and clinical concern for people comes through clearly in his writing, and his book will be a welcome contribution to the debate in cognitive development." —Simon Baron-Cohen, *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 Hobson, the key lies in that one word, relationship. . . Any parent reading his account will recognise it makes sense."  
—Steven Rose, *Sunday Times* (London)  
2004 304 pp.  
0-19-521954-6 \$35.00

### What Is Language Development?

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

### The Essential Child

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

### Applied Longitudinal Data Analysis

Modeling Change and Event Occurrence  
JUDITH D. SINGER and JOHN B. WILLETT  
2003 672 pp.; 81 line illus.  
0-19-515296-4 \$65.00

### Early Category and Concept Development

Making Sense of the Blooming, Buzzing Confusion  
Edited by DAVID H. RAKISON and LISA M. OAKES  
"This is about as close as it gets to a perfect 'state of the art' volume, in which all of the leading researchers of infants' and young children's categorization skills summarize their most recent work and thoughts." —Michael Tomasello, Ph.D., Co-Director, Max Planck Institute for Evolutionary Anthropology  
"This collection is an illustration of cognitive science at its best."  
—Yale University  
2003 464 pp.; 51 halftones & line illus.  
0-19-514293-4 cloth \$70.00  
0-19-514294-2 paper \$35.00

### The World of Deaf Infants

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

### Revealing the Inner Worlds of Young Children

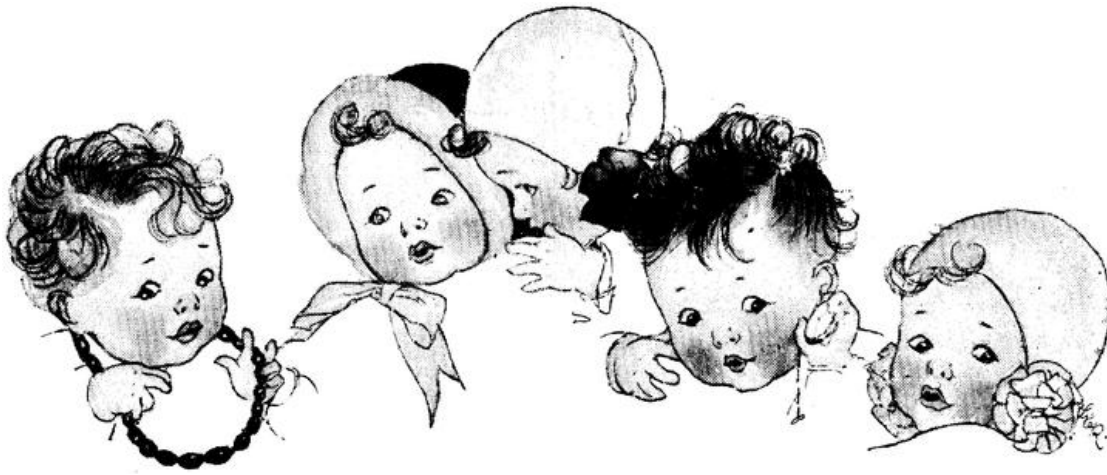
The MacArthur Story Stem Battery and Parent-Child Narratives  
Edited by ROBERT N. EMDE, DENNIS P. WOLF, and DAVID OPPENHEIM  
2003 407 pp.; 10 line illus.  
0-19-515404-5 \$59.95

A Choice Outstanding Academic Title for 2004

### The Cultural Nature of Human Development

BARBARA ROGOFF  
2003 448 pp.; 73 b/w halftones & line illus.  
0-19-513133-9 \$25.00





How will eye tracking enhance my research?

Is eye tracking infants complicated?

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Will it interface with my stimulus presentation?

How do I analyze my data?

Can the same system be used with adults?

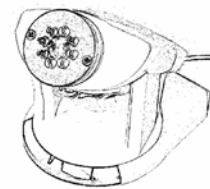
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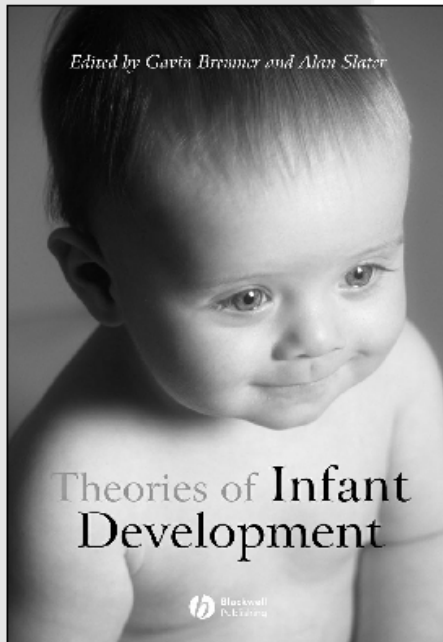
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# NEW FROM BLACKWELL



## 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.

### FULL CONTENTS

Foreword By Gavin Bremner (Lancaster University) & Alan Slater (University of Exeter).

#### Part I: Development of Perception and Action:

1. A Dynamical Systems Perspective On Infant Action And Its Development: Eugene C. Goldfield (Harvard University) & Peter H. Wolff (Harvard University).
2. A Developmental Perspective On Visual Proprioception: David I. Anderson (San Francisco State University), Joseph J. Campos (University of California, Berkeley) & Marianne A. Barbu-Roth (EPHE, Paris).
3. From Direct Perception To The Primacy Of Action: A Closer Look At James Gibson's Ecological Approach To Psychology: Alan Costall (University of Portsmouth).
4. The Development Of Perception In A Multimodal Environment: Lorraine E. Bahrick (Florida International University).
5. Neuroscience Perspectives On Infant Development: Mark H. Johnson (Birkbeck College), & Annette Karmiloff-Smith (University College London).

#### Part II: Cognitive Development:

6. The Case For Developmental Cognitive Science: Theories Of People And Things: Andrew N. Meltzoff (University of Washington, Seattle).
7. Theories Of Development Of The Object Concept: Scott Johnson (New York University).
8. Remembering Infancy: Accessing Our Earliest Experiences: Alan Fogel (University of Utah).

#### Part III: Social Development & Communication:

9. Maternal Sensitivity Is More Important Than Infant Temperament In Shaping The Infant-Mother Attachment Relationship: Marinus H. Van Ijzendoorn & Marian J. Bakerman-Kranenburg (Leiden University).
10. Emerging Co-Awareness: Philippe Rochat (Emory University)
11. Processes Of Development In Early Communication: David Messer (South Bank University)
12. Joint Visual Attention In Infancy: George Butterworth (University of Sussex)

SEPTEMBER 2003 ~ 6 X 9 ~ 400 PAGES  
0-631-23338-5 ~ PAPERBACK ~ \$34.95  
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Lancaster University; University of Utah

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### Blackwell Handbook of Childhood Social Development

Edited by **PETER SMITH, CRAIG HART**

Goldsmiths College, London; Brigham Young University

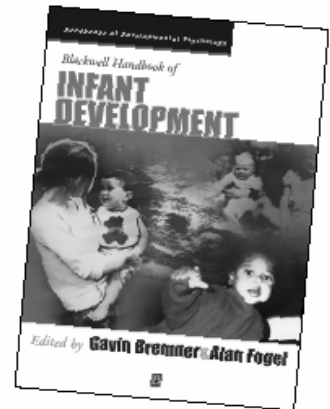
FEBRUARY 2004 ~ 6.75 X 9.75 ~ 688 PAGES  
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### Blackwell Handbook of Childhood Cognitive Development

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University of Cambridge

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ICIS<sup>2004</sup>  
XIV Biennial



International Society on Infant Studies

Past President:  
Incoming President:  
Conference Chairs:

Arnold Sameroff  
Joseph Campos  
George F. Michel  
Linda Camras



# ICIS

# 2004

## **14<sup>th</sup> 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 21<sup>st</sup> 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.
- Iona 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 Bahrck*

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 Bahrck, 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<sup>2004</sup> 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 7<sup>th</sup> floor, provides secretarial, photocopying, word processing, document scanning, fax transmission, printing, courier service, etc. services and is open Monday-Friday, 6:00am – 10:00pm and Saturday & Sunday, 8:00am – 4:00pm.

### **Other Facilities**

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

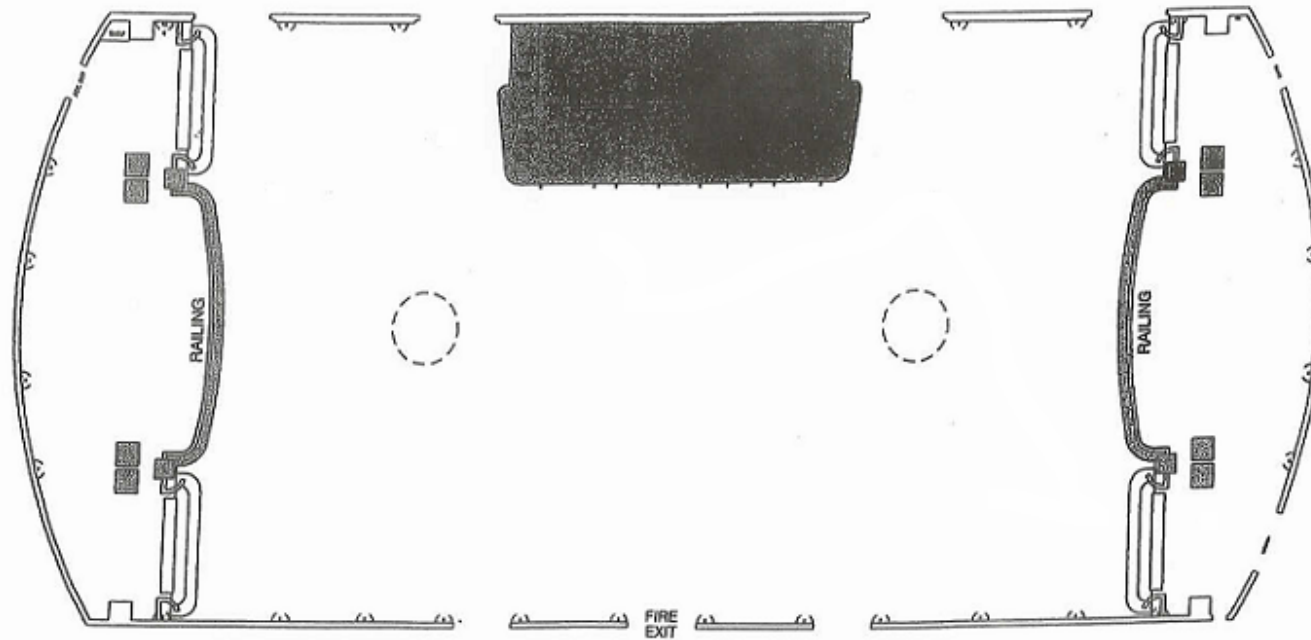
**Hotel Floor Plan**



*The Palmer House  
Hilton*



Lobby Level

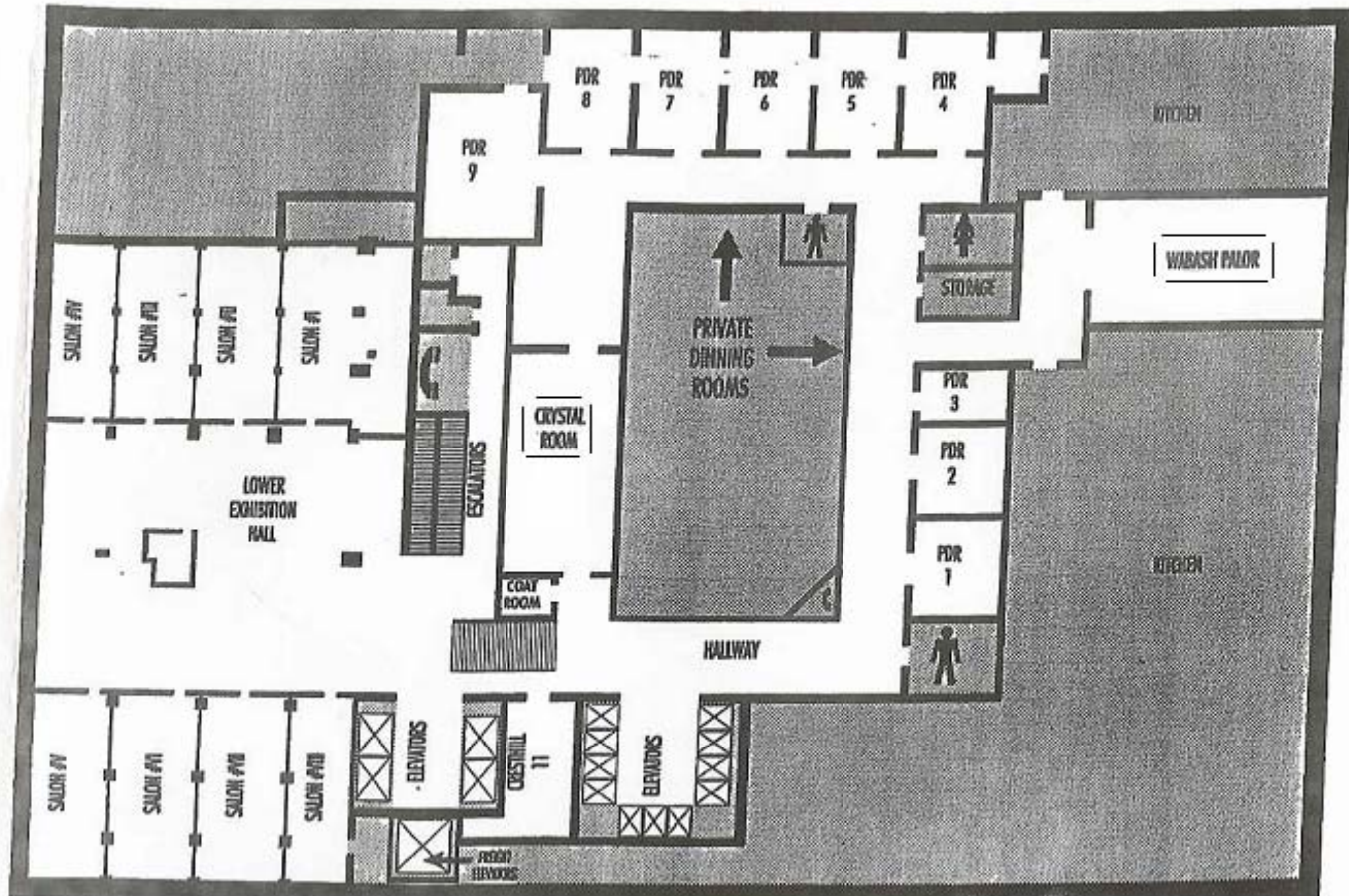


ROOM	DIMENSIONS LxW	SQUARE FEET*	CEILING HEIGHT	THEATRE	SCHOOLROOM (2/6')	SCHOOLROOM (3/6')	BANQUET	RECEPTION**	CONFERENCE
Empire Room	118x53	5,800	23	N.A.	N.A.	N.A.	350	500	N.A.

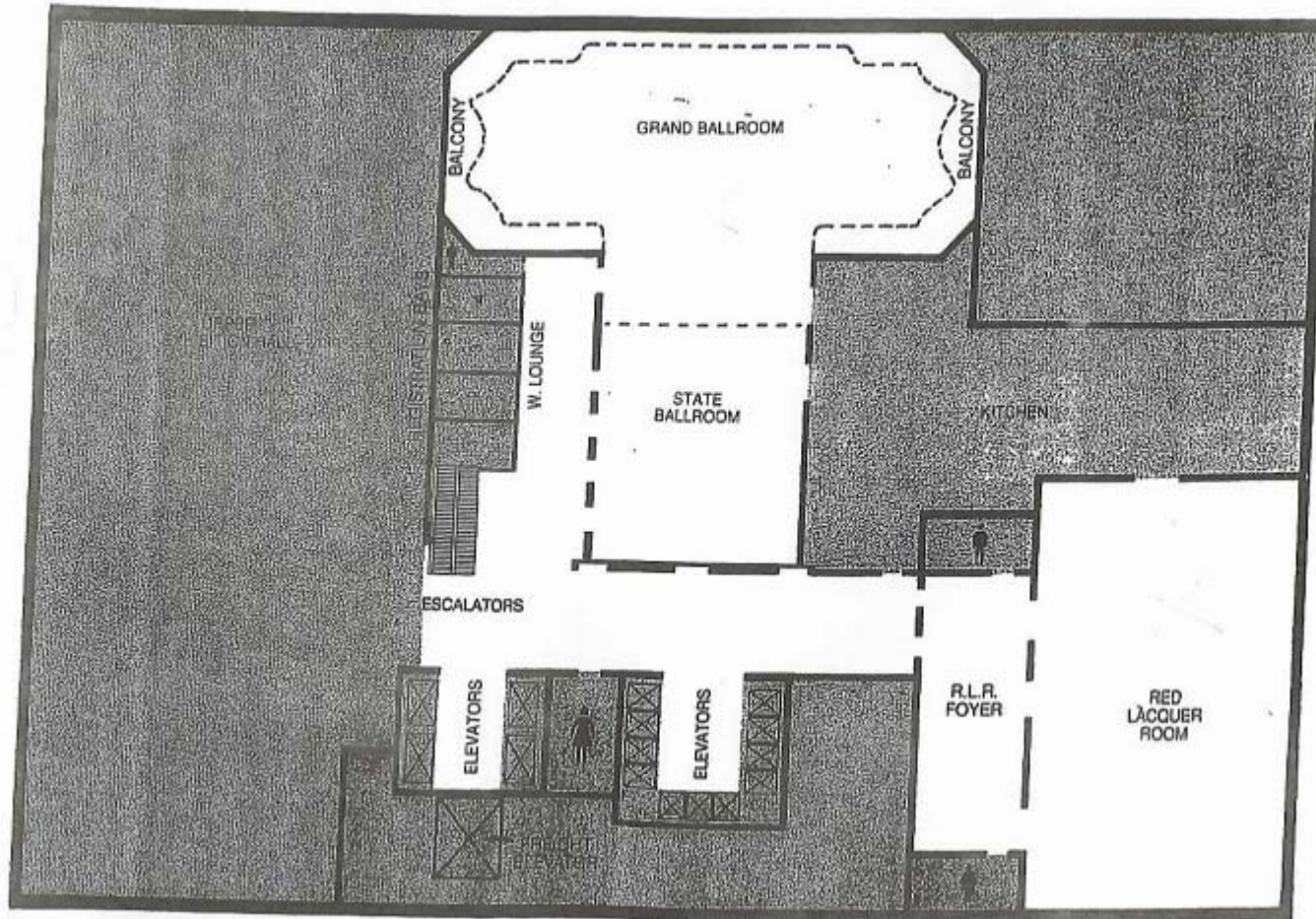
\*Usable square footage

\*\*Capacities take into consideration placement of bars, cocktail rounds, food stations and experience of hotel

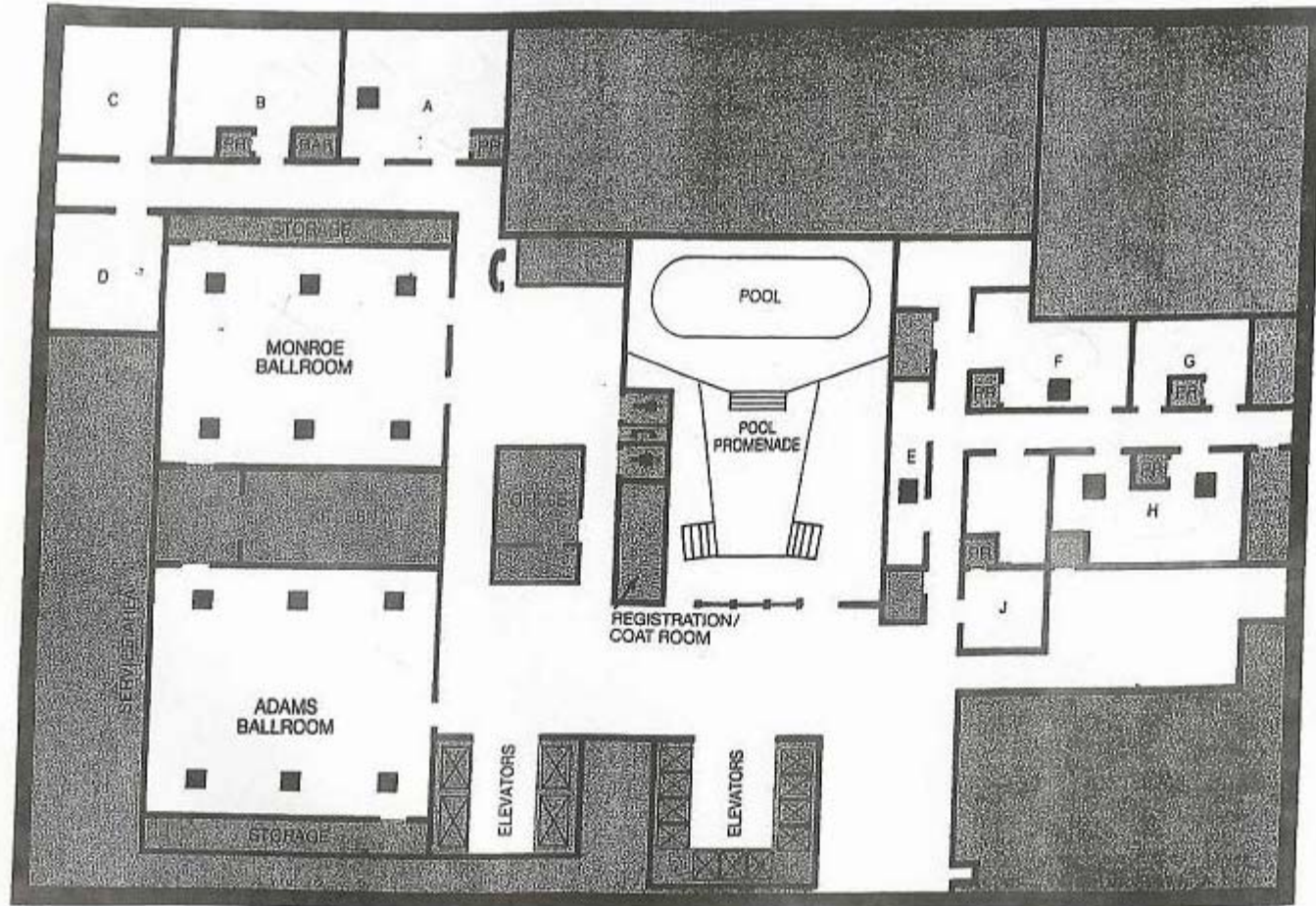
# 3 r d F L O O R



# 4th FLOOR



# 6th FLOOR



PR = PRIVATE POWDER ROOMS

## Conference Schedule at a Glance

<b>Wednesday May 5, 2004</b>					
	<i>Empire Room</i>	<i>Adams Room</i>	<i>Monroe Room</i>	<i>Parlor H Room</i>	<i>Crystal Room</i>
<b>9:00</b>					
<b>10:00</b>				8:00-10:30 <b>Touch Research Institute</b> (PP, SP OP)	9:00-11:00 Les Cohen's " <b>Habit 2000</b> " meeting (PP)
<b>11:00</b>		11:00-12:50 Symposium <b>Aslin</b> The Lexical/Phonetic Interface In Infancy: Coping With Multiple Sources Of Variability (PP)	11:00-12:50 Symposium <b>Messinger</b> Infant Smiles: Production, Perception, and Prediction (PP, OP)	11:00-12:50 Symposium <b>Waxman</b> The Conceptual Power of Naming: Categorization, Individuation and Inductive Inference (PP)	11:00-12:50 Dialogue: Autism & theory of mind. <b>Catherine Lord</b> and <b>Helen Tager-Flusberg</b>
<b>12:00</b>	11:30-4:00 Posters and Exhibitors				
<b>1:00</b>		1:00-2:50 WAIMH Symposium <b>Cabrera and Roggman</b> The ecology of father involvement: Families, parental involvement, programs and neighborhoods (PP, OP)	1:00-2:50 Symposium <b>Jones</b> Is my mommy sad, nervous, or interested in another baby? What maternal mood and direction of attention mean to infants (PP)	1:00-2:50 Symposium <b>Zelazo</b> New Perspectives on Autism: The Role of Stress (PP, SP, OP, LCD Projector)	1:00-2:50 Symposium <b>Baillargeon Renee and Wang</b> Context-specificity effects in infants' learning and reasoning about events (PP, OP)
<b>2:00</b>					
<b>3:00</b>		3:00-4:50 Symposium <b>Lumeng</b> Two Nutritive Suckling Systems in Human Infants (PP, OP)	3:00-4:50 Symposium <b>Bendersky</b> The Relation of Facial Expressions to Emotion Eliciting Situations (PP, SP,OP)	3:00-4:50 Symposium <b>Courage</b> Perspectives on Infants' Visual Attention: Developmental Change and Individual Differences (PP)	3:00-4:50 Symposium <b>Deák</b> Embodied Modeling Approaches To Infant Social and Language Development (PP)
<b>4:00</b>					
		<b>Red Lacure Room</b>			
<b>5:00</b>		5:00-6:00 Keynote address: <b>Bennett Bertenthal</b> Neurobiological perspective on the perception and understanding of actions. Chair: Linda Camras (PP)			
<b>6:00</b>					
<b>7:00</b>		6:15-8:00 Welcoming Reception (complimentary hors d'oeuvres and drinks)	7:00-8:30 Exec Com Dinner (Room to be announced)		

ICIS 2004, Chicago

Thursday May 6, 2004							
	Registration area	Adams Room	Monroe Room	Parlor H Room	Crystal Room	Wabash Room	
7:00	7:00-8:00 Breakfast (Complimentary coffee, tea, decaf coffee, juice, fruit, bagels, yogurt, bakery items, etc.)						
8:00		7:20-8:50 Roundtable Breakfast discussion <b>Lickliter, Bahrick</b> Integrating Research on unimodal and multimodal perception: Status, and strategy	7:20-8:50 Roundtable Breakfast discussion <b>Hirsch-Pasek, Golinkoff, Galinsky</b> Infant research and the public eye: Do we have a role in translating research for public consumption	7:20-8:50 Roundtable Breakfast discussion <b>Granier-Deferre, Schaal, DeCasper</b> Are There General Principles Regarding The Effects of Prenatal Sensory Experience?	7:20-8:50 <b>Breakfast dialogue:</b> "Issues in Emotional Development" with Joseph <b>Campos</b> & Alan <b>Fogel</b> .	7:20-8:50 Roundtable Breakfast discussion <b>Karp</b> The 4th Trimester and Calming Reflex - A new framework for understanding and resolving infant crying	
	<b>Empire Room</b>	<b>Adams Room</b>	<b>Monroe Room</b>	<b>Parlor H Room</b>	<b>Crystal Room</b>	<b>Wabash Room</b>	
9:00		9:00-10:50 Symposium <b>Best and Burnham</b> Infants' Perception of Native and Non-native Vocalic Properties: Vowels and Tones (OP, PP)	9:00-10:50 Symposium <b>Slaughter</b> Young children's understanding of the symbolic nature of objects and pictures (PP, OP)	9:00-10:50 Invited Symposium <b>Woodward and Needham</b> What Infants Learn by Doing (PP)	9:00-10:50 Symposium <b>Hollich</b> Do you see what I hear? Infants' use of audio-visual synchrony during language development. (PP)	9:00-10:50 Symposium <b>Fouts</b> Cultural Contexts of Infant-Caregiver Interactions (PP, OP)	
10:00	9:30-4:00 Posters and Exhibitors	11:00-12:50 Symposium <b>Liszkowski and Carpenter</b> Pointing In Infancy: Functions, Motives, And Its Role In Development (OP, PP)	11:00-12:50 Invited Symposium <b>Lewkowicz</b> Perception, Learning And Recall Of The Serial Organization Of Events (PP)	11:00-12:50 Symposium <b>Onishi</b> Exploring precursors to theory of mind in infancy with non-verbal tasks (PP)	11:00-12:50 Symposium <b>Waxman</b> Cross-linguistic perspectives on acquisition: Language-specific and language-general influences (PP)		
11:00		1:00-2:50 Invited Symposium <b>St James-Roberts</b> Crying and Colic Among Infants Receiving Western, and Non-Western, Forms of Care: Comparative Studies from Five Countries. (PP)	1:00-2:50 Invited Symposium <b>Oller</b> Infant vocal development and foundations for the linguistic capacity (PP, OTHER: Computer video clips and sound files will be played back through powerpoint)	1:00-2:50 Symposium <b>von Hofsten</b> The emergence of predictive visual tracking of temporarily occluded moving objects. (PP)	1:00-2:50 Symposium <b>Perez-Edgar</b> Temperamental and Self-Regulatory Processes in Cognitive Performance and Social Behavior (PP)		
12:00			3:00-4:50 Symposium <b>Wilcox</b> New Perspectives On Infant Categorization (PP)	3:00-4:50 Symposium <b>Johnson Susan</b> The detection and elaboration of goal-directed actions and agents (PP)	3:00-4:50 Symposium <b>Johnson Scott</b> The Big Questions of Infant Cognition: Trenchant Debate, Tentative Answers (PP)	3:00-4:50 Invited Symposium <b>Maurer</b> Critical Periods Re-examined: Evidence from Human Sensory Development (OP, PP)	
1:00							
2:00							
3:00							
4:00							
		<b>Red Lacquer Room</b>					
5:00		5:10-6:15 Keynote Address: Prof. Douglas Wahlsten "Biological Intelligence: An old theory now frail and failing" (Chair George F. Michel) (PP)					
6:00			<b>The Art Institute of Chicago</b>				
			<b>Canceled</b>				

ICIS 2004, Chicago

Friday May 7, 2004						
	Registration area	Adams Room	Monroe Room	Parlor H Room		Wabash Room
7:00	7:00-9:00 Breakfast (Complimentary coffee, tea, decaf coffee, juice, fruit, bagels, yogurt, bakery items, etc.)					
8:00		7:20-8:50 Roundtable Breakfast discussion <b>St. James-Roberts</b> Progress, puzzles, and prospects in infant crying research	7:20-8:50 Roundtable Breakfast discussion <b>Hirsch-Pasek, Newcombe, Golinkoff</b> Cross-talk: Reconsidering domain specificity and domain generality in infant cognition	7:20-8:50 Roundtable Breakfast discussion <b>Ostroff</b> Infancy Research and Critical Pedagogy: Toward a Scholarship of Teaching and Learning in Developmental Science		7:20-8:50 Roundtable Breakfast discussion <b>Moore</b> , Irreconcilable differences?: The relationship of development and evolution.
	<b>Empire Room</b>	<b>Adams Room</b>	<b>Monroe Room</b>	<b>Parlor H Room</b>	<b>Crystal Room</b>	
9:00		9:00-10:50 Symposium <b>Trehub</b> Music And Mind: Perspectives From Infants (PP)	9:00-10:50 Symposium <b>Wang</b> Facilitating infants' representations and actions (PP, OP)	9:00-10:50 Symposium <b>Hsu</b> Mothers and Their Toddlers in Social Context: Exploring Correlates and Outcomes of Maternal Behavior (PP, VCR)	9:00-10:50 Symposium <b>Karraker</b> The Role of Infants in Family Relationships Across the Life-Span (PP)	9:00-10:50 Symposium <b>Clark</b> Role Of Maternal Mood & Personality Disorder In Mother-Infant Interactive And Regulatory Capacities: Implications For Intervention (PP, OP, VCR)
10:00						Cresthill Room
11:00		11:00-12:50 Symposium <b>Manian</b> The many faces and uses of Still-Face paradigm (PP, OP, VCR)	11:00-12:50 Invited Symposium <b>Goldstein</b> Development in the Active Voice: Relationships between Social and Vocal Development in Infancy (PP, OP)		11:00-12:50 Invited Symposium <b>Uchiyama</b> Frontier of Infant Studies in Japan (PP)	12:00-1:00 Undergrad Luncheon
12:00	9:30-4:00 Posters and Exhibitors					
1:00		1:00-2:50 Symposium <b>Ablow</b> Neural Mechanisms of Attachment and Early Self-Regulation (PP)	1:00-2:50 Invited Symposium <b>Mennella</b> Gerber-Sponsored Symposium On Infant Taste And Smell Preferences (PP, SP)	1:00-2:50 Symposium <b>Carpenter and Tomasello</b> Action-Based Measures Of Infants' Understanding Of Others' Intentions And Attention (PP, Data Projector)	1:00-2:50 Symposium <b>Fogel</b> Beyond the Individual: Theory and Research on the Relational Coding System (PP, OP, VCR)	
2:00						
3:00		3:00-4:50 Symposium <b>Anderson and Corbetta</b> Learning to walk as an illustration of and catalyst for infant problem solving (PP, OP)	3:00-4:50 Symposium <b>Soderstrom</b> Finding structure in the input: What cues are infants using? (PP)	3:00-4:50 Symposium <b>Pauen</b> Categorization in infancy: The role of previous experience (PP)	3:00-4:50 Symposium <b>Legerstee</b> Imitation and awareness of others in the first two years of life (PP)	
4:00						
		<b>Red Lacure Room</b>				
5:00		5:00-6:00 Business meeting and awards (complimentary pretzel snacks and sof drinks)				
6:00		6:15-7:30 Presidential address by Prof. <b>Arnold Sameroff</b>				
7:00		"The Science of Infancy: Academic, Social, and Political Agendas" Chair: Rachel Keen (PP)				

ICIS 2004, Chicago

<b>Saturday May 8, 2004</b>						
	<b>Registration area</b>	<b>Adams Room</b>	<b>Monroe Room</b>	<b>Parlor H Room</b>	<b>Wabash Room</b>	
<b>7:00</b>	7:00-9:00 Breakfast					
<b>8:00</b>	(Complimentary coffee, tea, decaf coffee, juice, fruit, bagels, yogurt, bakery items, etc.)	7:20-8:50 Roundtable Breakfast discussion <b>Stifter</b> Measuring emotion regulation: Assessing the present and planning the future	7:20-8:50 Roundtable Breakfast discussion <b>Camras</b> Mentoring Women in the Profession	7:20-8:50 Breakfast discussion between members of the Japan Society for Baby Science and members of ICIS ( <b>Uchiyama, Konishi, Campos &amp; Sameroff</b> ).	7:20-8:50 Roundtable Breakfast discussion <b>Michel</b> , Journal Editors	
	<b>Empire Room</b>	<b>Adams Room</b>	<b>Monroe Room</b>	<b>Parlor H Room</b>	<b>Crystal Room</b>	
<b>9:00</b>	9:30-4:00 Posters and Exhibitors	9:00-10:50 Symposium <b>Gomez</b> Statistical Language Learning: Second Generation Research (PP)	9:00-10:50 Symposium <b>Bell</b> What Central and Autonomic Coupling Can Tell Us About Infant Cognitive and Affective Development (PP,OP)	9:00-10:50 Symposium ( <b>Canceled</b> ) <b>Thelen</b> The Dynamics of Decisions in Infants and Toddlers: Theory and Empirical Applications of the Dynamic Field Model (See program for posters)	9:00-10:50 Symposium <b>Elicker</b> The Nature and Developmental Influences of Caregiving Relationships in Infant-Toddler Child Care (PP)	
<b>10:00</b>						
<b>11:00</b>						
<b>12:00</b>			11:00-12:50 Symposium <b>Tamis-LeMonda</b> Developing Social Awareness In The Context Of Action (OP, PP, SP)	11:00-12:50 Symposium <b>Chambers</b> Distributional learning in phonological development: generalizations and constraints (PP)	11:00-12:50 Symposium <b>Mumme</b> Developments in Infants' Understanding of Emotions During the First Year (OP,PP)	11:00-12:50 Symposium <b>Fragaszy</b> Developmental origins of tool use in humans and nonhuman primates (PP)
<b>1:00</b>			1:00-2:50 Symposium <b>Goldfield</b> Dynamics of Infant Learning (PP)	1:00-2:50 Symposium <b>Polak</b> Measurement Issues Related to Early Temperament Research (PP)	1:00-2:50 Symposium <b>Deacon</b> What do infants know about grammatical morphemes? (PP, PC Dell Laptop)	3:00-4:50 Symposium <b>Baillargeon Raymond</b> Disruptive Behavior Problems in the General Population of Very Young Children (PP, OP, SP)
<b>2:00</b>						
<b>3:00</b>			3:00-4:50 Symposium <b>Field</b> Elevated Pregnancy Cortisol, Prematurity and Interventions (PP)	3:00-4:50 Symposium <b>Buss</b> Addressing Individual Differences in Temperament and Related Behaviors Using Multiple Physiological Measures (PP)	3:00-4:50 Symposium <b>Hauf</b> The Interaction Between Perception And Action In Infancy (PP)	3:00-4:50 Symposium <b>Campos</b> The development of visual proprioception: Antecedents and Consequences (PP, OP)
<b>4:00</b>						
		<b>Grand Ballroom</b>				
<b>5:00</b>		5:00-6:15 Public Keynote Address Dr. T. Berry Brazelton "Stresses and Supports for Families: the Touchpoints Program" (PP)				
<b>6:00</b>						



## **Invited Program**

### ***Keynote Addresses***

**A Neurobiological Perspective on the Perception and Understanding of Actions**

*Bennett Bertenthal*

Wednesday, 5:00 PM – 6:00 PM, Red Lacure Room

**Biological Intelligence: An Old Theory Now Frail and Failing**

*Douglas Wahlsten*

Thursday, 5:10 PM – 6:15 PM, Red Lacure 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 Lacure Room

### ***Symposia***

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

Chair: *William P. Fifer*

Wednesday, 11:00 AM - 12:50 PM, Wabash Room

**What Infants Learn by Doing**

Chair: *Amanda Woodward*

Thursday, 9:00 AM - 10:50 AM, Parlor Room

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

Chair: *David J. Lewkowicz*

Thursday, 11:00 AM - 12:50 PM, Monroe Room

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

Chair: *Ian St. James-Roberts*

Thursday, 1:00 PM - 2:50 PM, Adams Room

**Infant Vocal Development and Foundations for the Linguistic Capacity**

Chair: *Kimbrough D. Oller*

Thursday, 1:00 PM - 2:50 PM, Monroe Room

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

Chair: *Daphne Maurer*

Thursday, 3:00 PM - 4:50 PM, Crystal Room

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

Chair: *Michael H. Goldstein*

Friday, 11:00 AM - 12:50 PM, Monroe Room

**Frontier of Infant Studies in Japan**

Chair: *Ichiro Uchiyama*

Friday, 11:00 AM - 12:50 PM, Crystal Room

**Gerber-Sponsored Symposium on Infant Taste and Smell Preferences**

Chair: *Julie A. Mennella*

Friday, 1:00 PM - 2:50 PM, Monroe Room

***Dialogue***

**Autism & Theory of Mind**

Chairs: *Catherine Lord and Helen Tager-Flusberg*

Wednesday, 11:00 AM - 12:50 PM, Crystal Room

**Issues in Emotional Development**

Discussants: *Joseph Campos and Alan Fogel*

Thursday, 7:20 AM - 8:50 AM, Crystal Room

***Roundtable Breakfast Discussions***

**Integrating Research on Unimodal and Multimodal Perception: Status and Strategy**

Chairs: *Robert Lickliter and Lorraine Bahrick*

Thursday, 7:20 AM - 8:50 AM, Adams Room

**Infant Research and the Public Eye: Do we have a Role in Translating Research for Public Consumption**

Chairs: *Katherine Hirsch-Pasek, Roberta Golinkoff and Ellen Galinsky*

Thursday, 7:20 AM - 8:50 AM, Monroe Room

**Are There General Principles Regarding The Effects of Prenatal Sensory Experience?**

Chairs: *Carolyn Granier-Deferre, Benoist Schaal and Anthony DeCasper*

Thursday, 7:20 AM - 8:50 AM, Parlor H Room

**The 4th Trimester and Calming Reflex - A New Framework for Understanding and Resolving Infant Crying**

Chair: *Harvey Karp*

Thursday, 7:20 AM - 8:50 AM, Wabash Room

**Progress, Puzzles and Prospects in Infant Crying Research**

Chair: *Ian St. James-Roberts*

Friday, 7:20 AM - 8:50 AM, Adams Room

**Cross-talk: Reconsidering Domain Specificity and Domain Generality in Infant Cognition**

Chairs: *Katherine Hirsch-Pasek, Nora Newcombe and Roberta Golinkoff*

Friday, 7:20 AM - 8:50 AM, Monroe Room

**Infancy Research and Critical Pedagogy: Toward a Scholarship of Teaching and Learning in Developmental**

Chairs: *Wendy L. Ostroff*

Friday, 7:20 AM - 8:50 AM, Parlor H Room

**Irreconcilable Differences? The Relationship of Development and Evolution**

Chair: *David S. Moore*

Friday, 7:20 AM - 8:50 AM, Wabash Room

**Measuring Emotion Regulation: Assessing the Present and Planning the Future**

Chair: *Cynthia Stifter*

Saturday, 7:20 AM - 8:50 AM, Adams Room

**Mentoring Women in the Profession**

Chair: *Linda Camras*

Saturday, 7:20 AM - 8:50 AM, Monroe Room

**Breakfast discussion between members of the Japan Society for Baby Science and members of ISIS**

Chairs: *Ichiro Uchiyama, Konishi Yukuo, Joseph J. Campos and Arnold Sameroff*

Saturday, 7:20 AM - 8:50 AM, Parlor H Room

**Journal Editors**

Chair: *George F. Michel*

Saturday, 7:20 AM - 8:50 AM, Wabash Room

## **List of Exhibitors**

**Academia Book Exhibits**

**Allyn & Bacon**

**Blackwell Publishing**

**Brooks Publishing**

**Electrical Geodesics Inc.**

**Lawrence Erlbaum Associates, Inc., Publishers**

**Noldus**

**Oxford University Press**

**Qualisys Medical AB**

**Tobii Technology**

**University of Chicago Press**

## Conference Program

**Wednesday, May 5, 2004**

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

**We02 Les Cohen's "Habit 2000" Meeting**  
**9:30 AM – 11:00 AM**  
**Crystal Room**

**We03 Dialogue**  
**Autism & Theory of Mind**  
**Chairs:** Catherine Lord and Helen Tager-Flusberg  
**11:00 AM – 12:50 PM**  
**Crystal Room**

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### **We04 Symposium**

**The Lexical/Phonetic Interface In Infancy: Coping With Multiple Sources of Variability**

**Chair:** Richard N. Aslin  
**11:00 AM - 12:50 PM**  
**Adams Room**

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

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

Phonological Encoding of Familiar Word-Forms at 11 Months. The Role of Word Knowledge  
*Daniel Swingley*

Phonetic Perception in the Developing Lexicon: The Role of Word Knowledge  
*Christopher Fennell and Janet Werker*

Discussant: *Richard Asli*

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## **We05 Symposium**

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

**Chair:** Daniel S. Messinger

**11:00 AM - 12:50 PM**

**Monroe Room**

How Infants Smile in the Face-to-Face/Still-Face

*Susan Acosta, Tricia Cassell, Charles Bauer, Barry Lester and Edward Z. Tronick*

What Causes Some Infant Smiles to be Perceived as More Positive than Others?

Contributions of Automated Measurement and Ratings

*Cassel Tricia, Daniel S. Messinger, Jennifer Escobar, Zara Ambadar and Jeff Cohn*

How Some Infant Smiles get Made.

*Susan S. Jones*

The Development of Anticipatory Smiling: Predicting Social Expressivity from Infant Affective Communication

*Meaghan Venezia, Danielle Thorp and Peter Mundy*

Discussant: *Alan Fogel*

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## **We06 Symposium**

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

**Chair:** Sandra R. Waxman

**11:00 AM - 12:50 PM**

**Parlor H Room**

Auditory Source Influences the Effect of Object Naming on 9-Month-Olds' Object Categorization

*Anne L. Fulkerson and Robert A. Haaf*

Words as Invitations to Form Categories: The Importance of Consistency

*Sandra R. Waxman and Irena E. Braun*

Do Labels Help 12-Month-Old Infants Establish Object Representations?

*Fei Xu*

The Role of Naming in Guiding Infants' Categorization of Novel Objects with Shared Internal Features

*Susan A. Graham, Kristinn D. Meagher and Andrea N. Welder*

Discussant: *Susan Gelman*

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**We07 Symposium**

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

**Chair:** William P. Fifer

**11:00 AM - 12:50 PM**

**Wabash Room**

Sleep Environment and the Risk of SIDS in a Largely African-American Urban Population

*Fern R. Hauck*

The Genetics of Sudden Infant Death Syndrome: 2004

*Debra E. Weese-Mayer*

Serotonergic Receptor Binding Abnormalities In Infants Dying of the SIDS Among the Northern Plains Indians

*Hannah C. Kinney*

Altered autonomic development in SIDS

*William P. Fifer*

**Poster Session**

**11:30 AM – 1:30 PM**

**Empire Room**

**We08 Motor and Sensorimotor Behavior**

1. Infant Manual Exploration Of Object-Surface Relations  
*Alexa W. Khawar, Ashley S. Neal, Kristine S. Bourgeois and Jeffrey J. Lockman*
2. The Effects of Locomotor Posture on Infants' Social and Exploratory Behaviors  
*Melissa W. Clearfield, Molly Mullen and Nelson Naree*

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**We09 Perception and Attention**

3. Processing and Developmental Factors in Infant Spatial Orienting  
*Otilia Blaga and John Colombo*
4. The Reliability of Visual Habituation and Dishabituation: A Meta-Analysis  
*Michael Kavsek*
5. Modal and Amodal Completion Processes in Infancy

*Michael Kavsek and Laura Hemker*

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



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**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*

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**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*
35. Infant Temperament: An Evaluation of Infants Diagnosed with Down Syndrome.  
*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*

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**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

*Derek Moore, Julia Goodwin, Alice Toplis, Emma Axelsson, F.M.B Braddick, H.C. Fox, J.J.D. Turner, A.C. Parrott, L.T.Singer, S. Fulton and K. Farkas*

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

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### **We15 Social Development**

43. Later Representations of Infant Disorganization in the Family Drawings of 7-Year Olds  
*Sheri Madigan, Amy Oliphant and Susan Goldberg*
44. Continuity, Stability and Concordance of Mother and Sibling Beliefs and Behaviors in the Second Year  
*Marc H. Bornstein, Diane B. Leach and Kathleen M. Painter*
45. Linking Type and Amount of Child Care to Aggressive Behavior at 2 1/2  
*Susan Crockenberg and Esther Leerkes*
46. Exploring Developmental Onset of Understanding of Pretense in Infant Responses to Maternal Non-Literal Actions to Make them Laugh  
*Shigeru Nakano*
47. Infants Take Longer to Process Male than Female Faces in Comparable Looking Time Tasks  
*Jennifer L. Ramsey, Judith H. Langlois and Nathan C. Marti*
48. Inferring the Goals of Robot: Reenactment of Goals Paradigm with Robot  
*Shoji Itakura, Hiraku Ishida, Takayuki Kanda and Hiroshi Ishiguro*
49. Continuities and Discontinuities in Mother-Infant Co-Regulation: Linkages with Maternal and Infant Characteristics  
*Chris L. Porter and Melissa K. Wouden-Miller*
50. Infant' Perception of Emotional Expressions of Their Parents and Unfamiliar Adults  
*Sylvie Goldman, Ronit Kahana-Kalman, Diane Montague and Arlene Walker-Andrews*
51. 12- and 18-Month-Old Infants Follow Gaze to Spaces behind Barriers  
*Henrike Moll and Michael Tomasello*

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### **We16 Early Environments and Social Policy**

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

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**We17 Undergraduate Research**

- 53. Infants' Knowledge of Rational Goal-Directed Action  
*Jessica B. Cicchino and David H. Rakison*
- 54. New York Infant Walking Tours  
*Rachel Sotsky, Jessie Garciaguirre and Karen Adolph*
- 55. Comparison of Affect Expression Between Romanian Children in Institutional Settings and Those in the Surrounding Communities  
*Laura H. Driscoll, Peter J. Marshall and Nathan A. Fox*

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**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*

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**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*

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**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*

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**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*

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**We22 Symposium**

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

**Chairs:** Renée Baillargeon and Su-hua Wang

**1:00 PM - 2:50 PM**

**Crystal Room**

(Not) Learning by Doing: Garcia Effect in a Locomotor Discrimination Learning Task  
*Amy Joh and Karen Adolph*

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

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

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

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

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**Poster session**

**2:00 PM – 3:30 PM**

**Empire Room**

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**We23 Motor and Sensorimotor Behavior**

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

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**We24 Biological Processes**

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

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**We25 Communication and Language**

3. The Relationship Between Maternal Verbal Input and 13-Month-Olds' Vocabulary  
*Anne L. Fulkerson, Aren Murad, Jennifer Reams and Peg Hull Smith*
4. The Emergence of Absent Reference Comprehension in 12- to 16-Month-Old Infants  
*Megan Saylor*
5. Are Word Learning Biases Created In The Moment? Task And Stimulus Factors Affect The Shape And Material Biases  
*Larissa Samuelson and Jessica Horst*
6. Cross-Linguistic Analysis of Vocabulary in Toddlers: Spanish, Dutch, French, Hebrew, Italian, Korean and English  
*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*
21. Characteristics of the Object-Labeling Context in Parents' Speech to Infants  
*Gwenden L. Dueker*
22. Is There a Visual A-not-B error? Information Provided by an Eye-Tracking System  
*Lécuyer Roger and Kergoat Sophie*

## **We27 Perception and Attention**

23. When Four-Month-Olds can Make the Difference Between  $3+1=4$  and  $3+1=3$ .  
*Roger Lécuyer, Sohie Berthereau, Amel Ben Taïeb and Nadia Tardif*
24. The use of Perspective Cues in a 2D Display by 4-Month-Olds and Adults.  
*Myriam Frichtel, Roger Lécuyer and Karine Durand*
25. Infant Peripheral Stimulus Localization of Dynamic Stimuli  
*Brittany A. McKinney and John E. Richards*
26. The Influence of Body Movement on the Auditory Encoding of Rhythm Patterns  
*Jessica Phillips-Silver and Laurel J. Trainor*

27. Non-Nutritive Sucking in Neonates of Depressed vs Non-depressed Mothers  
*Maria Hernandez-Reif, Tiffany Field, and Miguel Diego*
28. Representation of the Object Motion at 4.5 Months of Age: A Study of Spatio-Temporal Parameters when an Object is Occluded.  
*Olga Kochukhova, Kerstin Rosander and Claes von Hofsten*

### **We28 Early Environments and Social Policy**

29. Infants Adopted From China: A Prospective Study of Their Development  
*Nancy Cohen, Mirrella Pugliese, Mirek Lojkasek and Zohreh Zadeh*
30. Outcomes of a Canadian National Project to Enhance Language and Cognitive Development in Community Based Programs  
*Nancy Cohen and Laura Heinz*

### **We29 Social Development**

31. Maternal Social Contingency: Effect on Two-Month-Old Infants' Responsiveness to Strangers  
*Ann Bigelow and Philippe Rochat*
32. Infants' Understanding of the Relation Between Seeing and Knowing - The Role of Surprise  
*Sarah Dunphy-Lelii and Henry Wellman*
33. The Many Different Faces of Parental Sensitivity: The Attachment Security Link  
*Diane Wille*
34. Coordinated Affect with Mothers and Strangers: A Longitudinal Analysis of Joint Engagement Between 5 and 9 Months  
*Tricia Striano and Evelin Bertin*
35. Prohibition and Protest: Changes in Mother-Infant Conflicts from 3- to 18-Months  
*Xin Chen and Gwen Gustafson*

### **We30 Psychopathology and Developmental Delay**

36. Teasing in Infancy: Comparing Mothers with and without Depressed Mood during Play with Their Babies  
*Nadja Reissland*
37. How Taiwanese Mothers of Babies With and Without Down Syndrome Perceive Their Roles in Supporting Development  
*Jeanette McCollum and Yu-Jun Chen*

### **We31 High Risk and Pediatric Issues**

38. Predicting Clinical Status with Discriminant Function Analysis on the NBAS  
*Dawn Ilardi, Eugene Emory and Katrina Cederberg*
39. Mother-Infant Relationship Across the First Year and the Development of Cognitive and Symbolic Competencies in Triplets  
*Ruth Feldman and Arthur I. Eidelman*
40. Developing a Sense of Motherhood: Pregnancy and Opiate Addiction  
*Suzanne Steinrueck and Sydney Hans*
41. Neurological Examination of Very Low Birth Weight Infants in Neonatal Intensive Care Units in Japan; A Questionnaire Analysis

*Yayohi Nakajima, Kyoko Hirasawa and Yukuo Konishi*

42. Clinical Significance of Mismatch Negativity in Healthy and High-risk Neonates  
*Kyoko Hirasawa, Yayohi Nakajima, Masaharu Kato, Makiko Kurihara and Konishi Yukuo*
43. Parental Competence in Adolescent Mothers  
*Louise Cossette, Daniel Paquette, Jean-François Saucier and Céline Goulet*

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### **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*

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### **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*

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### **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 Garciaguirre and Karen Adolph*
55. Predicting Nonverbal Learning Disabilities in a Sample of Children Born Preterm  
*Elizabeth Buvinger, Suzanne M. Cox and Sydney L. Hans*



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**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*

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**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*

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**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 Hoben Thomas*

Discussant: *John Richards*

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**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 Sczellatti*

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 Lacure Room**

**Welcoming Reception**

Opening remarks

6:15 PM – 8:00 PM

Red Lacure 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 Bahrlick

**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**

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**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*

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**Th07 Symposium****Cultural Contexts of Infant-Caregiver Interactions**

**Chair:** Hillary N. Fouts

**9:00 AM - 10:50 AM**

**Wabash Room**

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

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

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

Discussants: *Paula Ivey Henry, Gilda Morelli*

## Th08 Symposium

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

**Chairs:** Catherine Best, Denis Burnham

**9:00 AM - 10:50 AM**

**Adams Room**

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

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

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

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

Discussants: *Janet F. Werker and Winifred Strange*

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## 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*

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**Th10 Invited Symposium****What Infants Learn by Doing**

**Chair:** Amanda Woodward

**9:00 AM - 10:50 AM**

**Parlor Room**

Infant Memory in Action

*Carolyn Rovee-Collier*

Everyday Learning

*Karen E. Adolph*

Learning By Exploring Objects

*Amy Needham*

Learning About Action by Acting

*Amanda Woodward*

Learning to Solve a Motor Problem in the Second Year of Life

*Rachel Keen and Michael McCarty,*

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**Poster session**

**9:30 AM – 11:30 AM**

**Empire Room**

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**Th11 Motor and Sensorimotor Behavior**

1. Lower-body Functional Asymmetries in the Newborn: Are There Lateral Biases in Terms of Kinematic Parameters?  
*Erik Domellöf, Louise Rönnqvist and Brian Hopkins*
2. Adaptations in Infant Gait to Altered Balance Demands  
*Ugo Buzzi and Beverly Ulrich*
3. Relative Kicking Frequency in Full-term and Preterm Infants in the Mobile Paradigm  
*Jill Heathcock, Anjana Bhat, Michele Lobo and James (Cole) Galloway*

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**Th12 Biological Processes**

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

**Th13 Perception and Attention**

5. The Emergence of Cognitive Specialization: The Case of Face Preference.  
*Eloisa Valenza, Chiara Turati, Irene Leo and Francesca Simion*
  6. Visual Short-Term Memory Capacity in Infancy: Short-Term Retention of Object Feature and Conjunction Information  
*Evelin Bertin and Ramesh Bhatt*
  7. Agents Motion and the Development of Object Individuation  
*Luca Surian, Stefania Caldi and Eleonora Piredda*
  8. Infant Discrimination of Faces in the Context of Dynamic Multimodal Events: Predictions from the Intersensory Redundancy Hypothesis  
*Lorraine Bahrick, Robert Lickliter, Mariana Vaillant, Melissa Shuman and Irina Castellanos*
  9. Infants' Listening Preferences for a Cappella and Accompanied Music  
*Beatriz Ilari, Linda Polka and Megha Sundara*
  10. Core Knowledge Hypothesis vs. Ecological Theory: Understanding Spatial Reasoning Development in 24-44-Month-Olds  
*Sarah Cummins-Sebree*
  11. Infant Stream Segregation: Recognizing One's Name in the Context of Noise  
*Rochelle Newman*
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**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, Salerno Nicoletta and Fasolo Mirco*



22. Synchronous and Asynchronous Feeding Interaction in American and Italian Mother-Infant Dyads  
*Manuela Lavelli and Hui-Chin Hsu*

### **Th15 Social Development**

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

### **Th16 Emotional Development**

32. Neonatal Imitation in Chimpanzees  
*K.A. Bard*
33. Genetic and Environmental Contribution to the Quality of Attachment in Infancy  
*Ildiko Danis, Krisztina Lakatos, Zsofia Nemoda, Ildiko Toth and Judit Gervai*
34. Maternal Characteristics and Children's Behavioral Inhibition  
*Elizabeth J. Kiel and Kristin A. Buss*
35. Emotional Expressivity and Self-regulation in Reunion Play in High Risk Six Month Old Infants  
*Esther Cherland, Margaret McKim, Cheryl Sampson, Marnie 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  
*Erinn Hawkins, Elspeth Evans, Greg Moran, Dave Pederson and Kirstie Kneppers*

### **Th17 Cognition Memory and Learning**

38. The Role of Communicative-Referential Cues in Observational Learning During the Second Year  
*Ildikó Király, Gergely Csibra and György Gergely*

39. Reactivation and Reforgetting in the Second Year of Life  
*Vivian Hsu and Carolyn Rovee-Collier*
  40. Forming Associations Between Infants' Co-active Memory Representations  
*Kimberly Cuevas, Amy Learmonth and Carolyn Rovee-Collier*
  41. Contingency Learning in Short- and Long-Looker Infants  
*Catherine Weir and Stuart W. Millar*
  42. Delineating the Roles of Body Movement Copying and Object Movement Re-Enactment in Infants' Imitation of Acts on Objects  
*Chi-Tai Huang*
  43. Will Any Doll Do? 12-Month-Olds' Reasoning About Goal Objects  
*Elizabeth Spaepen and Elizabeth Spelke*
  44. Clever Parents, Clever Infants?  
*Hedwig van Bakel and Marianne Riksen-Walraven*
  45. Poverty and Mother-Toddler Pretend Play: Do Mothers Make a Difference?  
*Lisa K. Boyce, Lori A. Roggman, Gina A. Cook and Katie Christiansen*
  46. Discrete Versus Continuous Quantity in Infants' Judgments of Sets of Objects  
*Alan Leslie and Marian Chen*
  47. Developmental Differences in the Emergence of Mirror vs Live Video Self-Recognition  
*Gabrielle Simcock, Thomas Suddendorf and Mark Nielsen*
  48. Affordance Learning and Behavioural Re-Enactment in 12 Month Olds  
*Mark Nielsen*
  49. Object-Centered Versus Agent-Centered Interpretations of Referential Attitude Expressions in 14- Versus 18-Month-Olds  
*Katalin Egyed, Ildikó Király and György Gergely*
  50. The Facilitating Effect of a 1-Day Delay on Recall Memory in 9-Month-Olds: Evidence for Consolidation Processes  
*Angela Lukowski, Sandra Wiebe and Patricia Bauer*
  51. The Onset of the Executive Control of Action in Joint Attention by 15 to 32 Month-Olds  
*Maria Nunez and Jeanet Ingwersen*
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### **Th18 High Risk and Pediatric Issues**

52. Use of a Clinical Structured Interview to Delineate Proximal Aspects of the Infant Caregiving Environment in Two High-Risk Samples  
*Kathleen Platzman, Julie Kable and Claire Coles*
  53. Factors Predicting Behavior from 24 Months to 8 Years in Drug-Exposed Children  
*Claire Coles, Mary Ellen Lynch, Kathleen Platzman, Josephine Brown and Julie Kable*
  54. Factors Affecting Parents' Visitation in the Neonatal Intensive Care Unit  
*Reija Latva, Liisa Lehtonen, Raili Salmelin and Tuula Tamminen*
  55. Peripartum Epidural Anesthesia and Sucking Strength in Neonates: An Exploratory Study  
*Randall Zernzach, Lisa Jones, Gennah Stocks, R. Todd Davis and Christine Moon*
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### **Th19 Undergraduate Research**

56. Parental Warmth and Control as Contributors to Toddler's Shyness  
*Nathan A. Smith and Samuel P. Putnam*
57. Young Infants' Ability to Discriminate Disgust, Novel and Happy Expressions in a Peekaboo Paradigm  
*Donna Mumme and Jennifer DiCorcia*

58. Examining the Importance of Parent Relationships on the Outcomes of Toddlers  
*Shawna N. Bussey, Cheryl A. Fortner-Wood, James A. Elicker and Ilene C. Noppe*

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**Th20 Invited Symposium**

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

**Chair:** David J. Lewkowicz

**11:00 AM - 12:50 PM**

**Monroe Room**

Perception of Serial Order from Infancy to Early Childhood

*David Lewkowicz*

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

*Naomi Wentworth*

The Development of Infants' Perception of Causal Events

*Leslie Cohen*

Recall of Temporal Order: Behavioral and ERP Indices of Developmental Change

*Patricia Bauer*

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**Th21 Symposium**

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

**Chairs:** Ulf Liszkowski and Malinda Carpenter

**11:00 AM - 12:50 PM**

**Adams Room**

The Function of Declarative Pointing

*Ingar Brinck*

Motives and Social-Cognitive Abilities in Infant Pointing

*Ulf Liszkowski*

Private Pointing and Own attention "In Babies and Children"

*Begoña Delgado, Juan-Carlos Gómez and Encarnación Sarriá*

Pointing and Information Sharing in Infants

*Fabia Franco*

Dyadic Social Sensitivity and the Acquisition of Signs and Symbols

*Susan Leekam and Tracy Solomon*

## Th22 Symposium

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

**Chair:** Kristine H. Onishi

**11:00 AM - 12:50 PM**

**Parlor H Room**

Nonverbal Approaches to Testing False Belief in Comparative and Developmental Research

*Josep Call, Malinda Carpenter and Michael Tomasello*

What Rhesus Monkeys Understand About the Knowledge of Others

*Jonathan I. Flombaum and Laurie R. Santos*

False-Belief Understanding with Invisible Displacement in 15.5-Month-Old Infants

*Kristine H. Onishi and Renée Baillargeon*

Are Early Theory of Mind Insights Based on Statistical Learning?

*Ted Ruffman and Mele Taumoepeau*

Discussant: *Alan Leslie*

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## Th23 Symposium

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

**Chair:** Sandra R. Waxman

**11:00 AM - 12:50 PM**

**Crystal Room**

Evidence for the Extension of Nouns and Adjectives in Italian: New Cross-Linguistic Evidence

*Sandra R. Waxman and Maria Teresa Guasti*

Nouns and Verbs in Early Navajo Acquisition

*Dedre Gentner and Lera Boroditsky*

A Confluence of Cues in Learning to Inflect Palestinian Arabic Adjectives in Plural Contexts

*Dorit Ravid and Hunaida Abu Nofal*

Discussants: *Susan Goldin-Meadow and Virginia C. Mueller Gathercole*

**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*
10. Development of the Sensitivity to Linear-Acceleration of Radial Expansion Flow  
*Shirai Nobu, Kanazawa So and Yamaguchi Masami*
11. Perception of Depth from Shading in Chimpanzee (*Pan troglodytes*) and Human (*Homo sapiens*) Infants.  
*Imura Tomoko, Tomonaga 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?

*Emily Mather and Graham Schafer*

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 Schoeppner*

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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, Annya 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

- Angela Griffin, Rebecca Hoss, Jennifer Ramsey, Judith Langlois and Adam Rubenstein*
32. The Effect of Group Size on Children's Social Experience in Home-Based Childcare Settings  
*Erin M. Kryzer, Deborah A. Phillips, Deborah Lowe Vandell, Meaghan D. Gustafson and Megan R. Gunnar*
33. Does Mother Know Best? Infants' Use of Mothers' Unsolicited Advice in a Potentially Risky Motor Task  
*Lana B. Karasik, Sharon A. Lobo, Katherine A. Dimitropoulou, Elizabeth A. Zack, Karen E. Adolph and Catherine S. Tamis-LeMonda*
34. Relations Between Temperament and Early Peer Interaction in Toddlers' Joint Play and Cooperative Problem Solving  
*Geetha R. Balaraman, Celia A. Brownell, Stephanie Zerwas and Amanda Kimmel*
35. The Effect of Contextual and Maternal Variables on Mothers' Sensitivity to Infant Cries  
*Wilberta Donovan, Nicole Taylor and Lewis Leavitt*
36. Maternal Learned Helplessness and Sensitivity to Infant Cries: A Signal Detection Analysis  
*Wilberta Donovan, Lewis Leavitt and Nicole Taylor*
37. A Developmental Model of the Social Context of Decision-Making  
*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*

### **Th30 Emotional Development**

40. Psychopathology in Parents Of Children With Reactive Attachment Disorder(RAD)  
*Mukaddes Nahit Motavalli, Abali Osman, Eryonucu Buket and Gecici Omer*
41. Individual and Developmental Differences in Attention Regulation During the Still-Face Procedure  
*Melissa M. Whitehead and Janet Frick*
42. Longitudinal Examination of Fine-Grained Aspects of Temperament During Infancy, Toddlerhood and Early Childhood  
*Samuel P. Putnam, Maria A. Gartstein and Mary K. Rothbart*
43. Psychological Factors Associated With Men's Reactions to Infant Crying During Videotaped Father-Infant Interactions  
*Brenda Lundy, Kristine Jehle, Neil Herrberg and Christa Dillman*
44. The Coping with Toddlers' Negative Emotions Scale  
*Tracy L. Spinrad, Nancy Eisenberg, Anne Kupfer, Bridget Gaertner and Nicole Michalik*

### **Th31 High Risk and Pediatric Issues**

45. Maternal Stress During Pregnancy: The Relation Between Maternal Stress, Gestational Complications and Neonatal Health  
*Minhnoi Wroble Biglan*
46. Effects of Maternal Depression During Pregnancy on Maternal Health During Gestation and Labor and Neonatal Health  
*Minhnoi Wroble Biglan and Kimberly Wilson*

47. Early Adversity/Institutional Care Influences on the Development of Explicit Memory  
*Maria Kroupina and Rachel Dayton*
  48. Induced Maternal Psychological Arousal Generates a Fetal Response  
*Janet A. DiPietro, Melissa M. Ghera, Kathleen A. Costigan and Edith D. Gurewitsch*
  49. Attention Networks and Related Factors in VLBW Preschool Children  
*Deborah Winders Davis, Julia Robinson and Barbara Burns*
  50. Binge-like Postnatal Alcohol Exposure Induces Alterations in Response Habituation: The Duration & Modality Specificity of Effects  
*Katherine C. Morasch and Pamela S. Hunt*
  51. Social and Emotional Sequelae of Children Born Preterm: Neonatal Risk Status and Infant-Mother Attachment  
*Suzanne M. Cox, Sydney L. Hans and Elizabeth Buvinger*
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### **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*
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### **Th33 Early Environments and Social Policy**

54. Rates of Exclusive Breastfeeding Patterns Prior to Hospital Discharge  
*Nancy Aaron Jones*
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### **Th34 Undergraduate Research**

55. The Role of Infant Sex and Caregiving Context in the Relation Between Infant Temperament and Quality of Maternal Interventions  
*Elizabeth Malesa, Bella Guner, Amie Ashley Hane and Nathan A. Fox*
  56. The Relation Between Maternal Report of Infant Temperament and Degree of Shared 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*
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### **Th35 Other**

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



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**Th36 Invited Symposium**

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

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

**1:00 PM - 2:50 PM**

**Adams Room**

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

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

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

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

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

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**Th37 Invited Symposium**

**Infant Vocal Development and Foundations for the Linguistic Capacity**

**Chair:** Kimbrough D. Oller

**1:00 PM - 2:50 PM**

**Monroe Room**

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

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

Relationships Between Sound Forms and Functions in Infancy  
*Suneeti Nathani*  
Discussants: *William P. Fifer and John L. Locke*

### **Th38 Symposium**

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

**Chair:** Claes von Hofsten

**1:00 PM - 2:50 PM**

**Parlor H Room**

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

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

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

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

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

Discussant: *Elizabeth Spelke*

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### **Th39 Symposium**

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

**Chair:** Koralyn E. Perez-Edgar

**1:00 PM - 2:50 PM**

**Crystal Room**

Electrophysiological and Temperamental Correlates of Cognitive Development in Infancy  
*Koralyn 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

Marc D. Lewis and Rebecca Todd

Discussant: Susan D. Calkins

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**Poster Session**

**1:30 PM – 3:30 PM**

**Empire Room**

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**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*
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**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*
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**Th42 Perception and Attention**

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

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**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*
16. Pointing and Language Development: Individual Differences at 18 and 24 Months  
*Assanelli Alessandra, D'Odorico Laura and Fabia Franco*
17. Infants' Discrimination of Affect in Music and Speech  
*Katie Gordon, Seth Gunderson, Sarah Wood, Melinda Allen and Ross Flom*
18. Polly Want a Cracker? On Talking to Babies, Puppies and Parrots  
*Nan Xu, Denis Burnham, Christine Kitamura and Uté Vollmer-Conna*
19. Temporal Changes in Infant Crying and Adults' Judgments of Cry Distress  
*Rebecca Wood*
20. More isn't Always Better: Three-Year-Olds Master Intransitive Verbs  
*Mandy J. Maguire, Shannon M. Pruden, Kathy Hirsh-Pasek, Natalie Hansell and Meredith A. Meyer*

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**Th44 Cognition Memory and Learning**

21. Evidence for Correct Predictions in Infants Who Fail to Search Correctly  
*Victoria Southgate, Juan-Carlos Gomez and Kerstin Meints*
22. Newborns Recognize and Prefer Mother's Voice: Rich Prosody Not Required  
*Christine Moon, Jung Chong and Randall Zernzach*
23. Do Infants Control Their Actions by Anticipating Interesting Action Effects?  
*Gisa Aschersleben and Petra Hauf*
24. A Comparison of Televised-Model and Live-Model in Infants' Action Control: Are Action Effects Important?  
*Petra Hauf, Annette Klein and Gisa Aschersleben*
25. Scaffolding and Modeling as Mechanisms of Infant Problem Solving Development  
*Katherine H. Grobman and Rick O. Gilmore*
26. Very Young Children's Insensitivity to Picture Book Orientation Extends to Face Pictures  
*Cynthia Chiong and Judy DeLoache*
27. Infants' Use of Color and Luminance Differences to Individuate Objects  
*Rebecca Woods and Teresa Wilcox*
28. The Role of Functional Knowledge for Infant Categorization of Artifacts  
*Birgit Traeuble and Sabina Pauen*
29. The Role of Working Memory in Infants' Expectations  
*Scott A. Adler, Krista Prising and Soohee Jung*
30. Children Form Concepts of Others' Preferences  
*Christine Fawcett and Lori Markson*

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**Th45 Social Development**

31. Fathering in Infancy: A Quantitative and Qualitative Examination of Past and Current Relationships  
*Jacqueline Shannon, Elizabeth Felleman, Karen McFadden and Ana-Maria Pinter*

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

#### **Th46 Emotional Development**

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

#### **Th47 Risk and Pediatric Issues**

43. Looking Behavior in Infants Exposed to Insufficient Thyroid Hormone In Utero  
*Joanne Rovet, Sarah Roberts, Giuseppe Mirabella and Denice Feig*
44. Visual Attention in Infants Exposed to Insufficient Thyroid Hormone in Utero  
*Joanne Rovet and Ted Balant*
45. Preliminary Findings from an ERP Study of Memory Processing in Iron Deficient Infants  
*Matthew J. Burden, Rinat Armony-Sivan, Alissa Westerlund, Sandra W. Jacobson, Betsy Lozoff, Charles Nelson and Joseph L. Jacobson*
46. Prenatal Alcohol Exposure, Iron Deficiency Anemia and Postnatal Growth  
*Rinat Armony-Sivan, Sandra W. Jacobson, Christopher D. Molteno, Colin R. Carter, Denis L. Viljoen and Joseph L. Jacobson*
47. Maternal Substance Use, Maternal Behavior during Mother-Infant Feeding Interactions and Possible 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 Maroes and Joel Tourigny*
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#### **Th48 Psychopathology and Developmental Delay**

50. Contextual Risk, Child Socio-Emotional Functioning and Parenting Self-Efficacy Among Families of Children with Disabilities  
*Amy Buchanan and Jeanne M. Wilcox*
51. Predictors of Effortful Control Among Children of Alcoholic and Non-Alcoholic Fathers  
*Rina Eiden, Ellen Edwards and Kenneth Leonard*
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#### **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*
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#### **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*
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#### **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*
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#### **Th52 Symposium**

##### **New Perspectives on Infant Categorization**

**Chair:** Teresa Wilcox

**3:00 PM - 4:50 PM**

**Adams Room**

Infants Use Appearance and Function to Form Categories

*Lisa M. Oakes, Jessica S. Horst and Kelly L. Madole*

Two Mechanisms by which Function Facilitates Early Categorization

*Amy Booth and Sandra Waxman*

The Nature of Color-Function Categories that Support Color Priming in Individuation Tasks

*Teresa Wilcox and Catherine Chapa*

A Non-Lexical Shape Bias in 14-Month-Old Infants

*Gil Diesendruck, Susan Graham and Susan Onysyk*

Discussant: *Paul Bloom*

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### **Th53 Symposium**

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

**Chair:** Scott P. Johnson

**3:00 PM - 4:50 PM**

**Parlor H Room**

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

*Denis Mareschal*

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

*David Rakison*

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

*Laura Namy*

Developmental Origins of Object Concepts

*Scott Johnson*

Discussants: *Linda Smith*

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**Th54 Symposium**

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

**Chair:** Susan C Johnson

**3:00 PM - 4:50 PM**

**Monroe Room**

Understanding Actions as Goal-Directed in Infancy

*Szilvia Biro and Alan M. Leslie*

A Cue-Based Approach to the Early Origins of Goal Attribution in Infancy

*Ildikó Király and György Gergely*

Reasoning About Present Dispositions Based on Past Interactions

*Valerie Kuhlmeier, Karen Wynn and Paul Bloom*

Young Infants' Reasoning About a Novel Agent

*Yuyan Luo and Renée Baillargeon*

The Attribution of Goals as a Possible Precursor to the Categorization of Tools in 12-Month-Olds

*Susan Johnson and Alpha Y. Shimizu*

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**Th55 Invited Symposium**

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

**Chair:** Daphne Maurer

**3:00 PM - 4:50 PM**

**Crystal Room**

Development of Face Processing: Are There Critical Periods? Plasticity During Normal Development and After Early Brain Damage

*Scania de Schonon 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*



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**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**

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### **Fr05 Symposium**

#### **Music and Mind: Perspectives from Infants**

**Chair:** Sandra E. Trehub

**9:00 AM - 10:50 AM**

**Adams Room**

Long-term Memory Representations for Music: Encoding Tempo, Timbre and Pitch  
*Laurel Trainor and Judy Plantinga*

Memory for Pitch Information in Songs  
*Anna Volkova, Sandra Trehub and Glenn Schellenberg*

Metrical Categories in Infancy and Adulthood  
*Erin Hannon*

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

Discussant: *Sandra Trehub*

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## **Fr06 Symposium**

### **Facilitating Infants' Representations and Actions**

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

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

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

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

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

Discussant: *Peter Willatts*

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## **Fr07 Symposium**

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

**Chair:** Hui-Chin Hsu  
**9:00 AM - 10:50 AM**  
**Parlor H Room**

Separation Anxiety in Mothers of One-Year-Olds: Its Association with Maternal Behavior

*Hui-Chin Hsu*

Gender, Maternal Attention Directing and Language at 12 and 18 Months of Age

*Barbara D'Entremont, Sarah MacAulay and Rosyln Morgan*

Laughter in Maternal Toddler-Directed Speech

*Eva Nwokah*

Discussants: *Ilse De Koeyer*

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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 Voegtline 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 Apter-Danon, R. Graignic-Philippe, E. Devouche, M. Valente-Gianoli and A. Le Nestour-Crevillé*

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

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

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

Discussant: *Edward Z. Tronick*

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**Poster Session**

**9:30 AM – 11:30 AM**

**Empire Room**

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**Fr10 Motor and Sensorimotor Behavior**

1. Is Infants' Catching Tuned to Physical or Biological Motion?  
*Pär Nyström, Hellena Grönqvist and Claes von Hofsten*

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**Fr11 Biological Processes**

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

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**Fr12 Perception and Attention**

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

7. Small Ratio Number Discrimination in 10-Month-Old Infants  
*Rosa Arriaga and Fei Xu*
  8. Auditory Stimulus can Modulate the Latency of Saccade to a Visual Target in Infants  
*Masaharu Kato, Kazuo Hiraki, Kazunori Kamewari and Yukuo Konishi*
  9. Face Processing in Infancy: Developmental Changes in the Use of Different kinds of Relational Information  
*Ramesh Bhatt, Evelin Bertin and Angela Hayden*
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### **Fr13 Communication and Language**

10. The Effect of Joint Attention Training for Child Care Providers on the Language Development of Young Children  
*Loretta Cooper Rudd, David W. Cain and Terrill F. Saxon*
  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. Zamuner*
  14. Infants' Ability to Distinguish Vowel Contrasts in a Word Learning Task  
*Christopher Fennell and Suzanne Curtin*
  15. A New Motive of Infant Pointing: 12- and 18-Month Olds Point to Inform Others  
*Ulf Liszkowski, Malinda Carpenter, Tricia Striano and Michael Tomasello*
  16. Scaffolding the Nonpresent: Mothers' Absent Object Reference from 14 to 22 Months  
*Priya Shimpi and Janellen Huttenlocher*
  17. The Role of Labels in a Manual Search Object Individuation Task  
*Melissa Cote, Allison Baker and Fei Xu*
  18. "Shhh! We're Tryin' to Concentrate": Attention and Environmental Distraction in Novel Word Learning  
*Wallace E. Dixon, Brenda J. Salley, Sara M. Loudermilk and Stacy Barner*
  19. Cross-Language Perception of Lexical Tone: Developmental Reorganisation for Lexical Tone but not 'Pitch'  
*Karen Mattock and Denis Burnham*
  20. Maternal Bookreading to Low-Income Infants and Toddlers: Inputs and Effects on Language and Cognitive Development  
*Helen Raikes, Louisa Tarullo, Barbara Pan and Gayle Luze*
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### **Fr14 Cognition Memory and Learning**

21. Phoneme Discrimination in Early Infancy: Comparison of Behavioral and Electrophysiological Results  
*Stefanie Kruck, Barbara Höhle, Karsten Nubel, Jürgen Weissenborn and Manfred Gross*
22. Intention to Represent in the Drawings of 2- to 5-Year-Olds  
*Tara Callaghan and Philippe Rochat*

23. TouchStat v. 3.00: A New and Improved Monte Carlo Method for Calculating Sequential Touching Probabilities  
*Wallace E. Dixon Jr. and Michael Watkins*
24. Early Word Learning from Picture Books  
*Patricia Ganea and Judy DeLoache*
25. Children Can Use the Solidity Principle If They Make The Choice  
*Bruce Hood, Karen Hector and Ruth Kamrowski*
26. Sandwich or Soap? Object Substitution during Pretend Play by Very Young Children  
*Dawn K. Melzer and Marvin W. Daehler*
27. The Role of Parallel Attention in Infants' Ability to Sum Across Object Representations  
*Lisa Feigenson and Amanda Brandone*
28. The Acquisition of Conceptualization of Color, Form and Other Attributes in Korean Infants  
*Hyunran Sung, Kijo Bae, 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 Weitzman, Lorky Libaridian, George Melikian, James Dziura and Andrew Geier*
36. Parents' Beliefs About Infants' Crawling  
*Shaziela Ishak-Mohammed*
37. Effects of Children's Age and Expertise on Mothers' Verbal and Gestural Communications  
*Katherine Dimitropoulou, Catherine Tamis-LeMonda, Karen Adolph and Martha Alibali*
38. The Role of Infant Touching Behaviours During Social Interactions  
*Robin Moszkowski and Dale Stack*

### **Fr16 Emotional Development**

39. A Comparative Study of Arm Restraint Methodology: Differential Affects of Mother/Stranger Restrainers  
*Rebecca L. Farmer, Chris L. Porter and Cortney Evans*

40. Infant Temperament And Maternal Behavior As Predictors Of Object Mastery Motivation At 24 Months  
*Nino Badridze, Naseem Choudhury and April A. Benasich*
41. The Influence of Children's Temperament on Maternal Behavior During a Distressing Situation  
*Nichole Christiansen, Liliya Endres, Jeanne Valerio, Michelle Hurley and Michael Morales*
42. Children's Nonverbal Communication Skills and Emotion Regulation  
*Ruth Starke, Ferne Pinard, Rheta Vann, Michelle Hurley and Michael Morales*
43. Relations Between Affect Expression and Language Use in Toddlers  
*Rebecca Bolnick, Claire Champion, Jeffrey Liew, Tracy Spinrad and Nancy Eisenberg*
44. Toddler Language Status and Emotional Quality of Mother-Child Interaction  
*Pamela M. Cole, Keith A. Crnic, Keith Nelson, Kristy J. Finlon and Clancy B. Blair*
45. Maternal Sensitivity to Infant Distress and Non-Distress at 6 Months as Predictors of Attachment Security at 15 Months  
*Nancy McElwain and Cathryn Booth-LaForce*
46. Associations Between Maternal Depression, Paternal Psychopathology and Toddler Behavior Problems  
*Laura J. Dietz*

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### **Fr17 High Risk and Pediatric Issues**

47. Attention Problems in Preterm and Full Term 3-year-Olds as Assessed by the ANSER System  
*Dianne Creighton, Deborah Dewey, Susan Crawford and Reg Sauve*
48. Aggressive Behavior Problems at Age 3 in Preterm and Full Term Children  
*Dianne Creighton, Deborah Dewey, Susan Crawford and Reg Sauve*
49. Diurnal Salivary Cortisol Patterns of Mothers and Their Infants Born at Term and Prematurely  
*Madalynn Neu and Mark Laudenslager*
50. Early Detection of Cerebral Palsy in Preterm Infants: Quantification of Observed Motor Behavior Using the Nasa Postural Video Analysis Tool  
*Eilish Byrne, Jessica Rose and Janet Constantinou*
51. Predicting Behavior Problems at 3 Years in Children with Prenatal Cocaine Exposure: Structural Equation Modeling with a Prospectively Enrolled Sample  
*Tamara Warner, Fonda Davis Eyler, Marylou Behnke, Cynthia Wilson Garvan and Wei Hou*
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*

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### **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*



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**Fr19 Early Environments and Social Policy**

54. The Development of Play in Young Toddlers Attending Early Head Start  
*Elisa Vele, Samantha Berkule and Ronit Kahana-Kalman*

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**Fr20 Undergraduate Research**

55. Maternal Speech about Present and Absent Things  
*Catherine Gallerani*

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**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*

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**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 Kroeze and Laurel Trainor*
11. Cortical Source Localization of Infant Visual Attention and Recognition Memory  
*Greg Reynolds and John Richards*
12. The Role of Early Experience in Face Processing  
*Robert Shannon, Lisa Scott, Elizabeth Nicholson, David Kelly, Olivier Pascalis and Charles Nelson*
13. Computer Mobile: A New Procedure For Investigating Viewpoint Invariance  
*James Tse, Kimberly S. Kraebel, Ravikumar Makam and Peter Gerhardstein*

**Fr27 Communication and Language**

14. Who's Kissing Who? Two-Year-Olds' Comprehension of Pronouns and Word Order in Grammatical and Ungrammatical Sentences  
*Cass D. Foursha, Gretchen A. Van de Walle and Jennifer B. Austin*
15. What's in the Words: Charting the Function of Mother's Speech in the First Year  
*Christine Kitamura, Denis Burnham and Nicole Goozee*

16. Maternal Speech at 1 and 3 Months  
*Anne Henning, Tricia Striano and Elena V. M. Lieven*
17. Maternal Input and Statistical Learning Ability in Infants.  
*Mele Taumoepeau and Ted Ruffman*
18. Following Pointing. Does Gesture Trigger Shifts of Visual Attention in Human Infants?  
*Katharina J. Rohlfing, Matthew R. Longo and Bennett I. Bertenthal*
19. The Influence of Mother's Book Reading Styles on Korean Infants' Early Vocabulary Development  
*Keunyoung Lee, You-Kyung Chang-Song, Ji Yeon Lee, Su Chung Kim and Wonkyung Kim*
20. Differentiation of Prelinguistic Vocalizations during Social Interactions  
*Julie Gros-Louis and Michael Goldstein*
21. Understanding and Expression of Emotion-Descriptive Language for Ages of 18 to 36 Months  
*Minhwa Kim, Su-Jeong Ok, Keunjoo Kwak and You-Kyoung Chang-Song*
22. Maternal Pointing and Toddler Vocabulary Production during Book Reading versus Toy Play  
*Meredith Rowe and Barbara Alexander Pan*

## **Fr28 Cognition Memory and Learning**

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

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**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*

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**Fr30 High Risk and Pediatric Issues**

42. Maternal Methadone Maintenance: Higher Doses More Neonatal Complications!  
*Trecia A. Wouldes*
43. The Helping Relationship in a Doula Support Program for Young Mothers and Their Infants  
*Jon Korfmacher, Marisha Humphries and Sydney Hans*
44. Early Social Communicative Abilities in Young Medically High-Risk Preterm Children  
*Isabel De Groot, 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 Boller*
48. Behavior Problems in 18 to 36 Month Old Children of Alcoholic Fathers: Secure Mother-Infant Attachment as a Protective Factor  
*Ellen Edwards and Rina Eiden*

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**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*

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**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*

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**Fr33 Emotional Development**

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

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**Fr34 Other**

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

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**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*

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**Fr36 Symposium**

**Neural Mechanisms of Attachment and Early Self-Regulation**

**Chair:** Jennifer C. Ablow

**1:00 PM - 2:50 PM**

**Adams Room**

Linking Maternal Modles 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*

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**Fr37 Invited Symposium****Gerber-Sponsored Symposium on Infant Taste and Smell Preferences****Chair:** Julie A. Mennella**1:00 PM - 2:50 PM****Monroe Room**

Taste and Behavior  
*Jacob E. Steiner*

Exploring the Beginnings of Flavor Preferences  
*Julie A. Mennella*

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

Neurobiology of Infant Attachment  
*Regina M. Sullivan*

Discussant: *George F. Michel*

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**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*

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### **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*

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### **Poster Session**

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



**Fr40 Motor and Sensorimotor Behavior**

1. Asymmetries in Two-Dimensional Gaze Tracking  
*Helena Grönqvist, Gustaf Gredebäck and Claes von Hofsten*
2. Early Development of Visual-Vestibular Interaction  
*Kerstin Rosander and Claes von Hofsten*
3. Keep 'em Guessing: Detecting Systematic versus Random Responding in Psychophysical Tests of Optic Flow Discrimination  
*Michael Holmes, Michael Dahlin, Kasey Soska and Rick Gilmore*
4. General and Task-related Experiences Affect Early Object Interaction  
*Michele Lobo, James Galloway and Geert Savelsbergh*

**Fr41 Biological Processes**

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

**Fr42 Perception and Attention**

7. The Lip-Sound Matching of Vowels in Japanese Infants  
*Ryoko Mugitani, Tessei Kobayashi and Kazuo Hiraki*
8. Self-Regulation and Maternal Behavior as Antecedents of Performance on Visual Habituation and Recognition Memory Tasks  
*Margaret M. Mannix, Nicole Yue, Naseem Choudhury, Nino Badridze and April A. Benasich*
9. Novelty Preference and AnotB Performance in a Large Sample of Healthy, Term Infants.  
*Julia Noland, Lynn Singer, Marc Bornstein and Robert Arendt*
10. Visual Pop Out in 3-Month-Old Infants  
*Rebecca West and Peter Gerhardstein*
11. Cognitive Strategies in a Dynamic Search Task: Effects of Congruent and Conflicting Cues  
*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 Saedi, Philip A. Cooper and David I. Perrett*
19. Do I Get What You Get? How Infants Learn About the Effects of Self-Performed and Observed Actions  
*Birgit Elsner, and Gisa Aschersleben*
20. Behavioural and Electrophysiological Evidence of Common-Onset Visual Masking in 6-Month-Old Infants.  
*Eleni Kotsoni, Denis Mareschal and Mark H. Johnson*
21. Iso-Salient Color and Luminance Information in Object Identification  
*Zsuzsa Kaldy, Erik Blaser and Alan Leslie*
22. Flexible Categorisation in 18-Month-Olds  
*Denis Mareschal and Seok Hui Tan*
23. Experience Viewing Videos of Objects Influences Object Examining in 14- and 30-Month-Olds  
*Clay Collins and Ann Ellis*
24. Reactivation in an Imitation Task by 6-Month-Olds.  
*Amy Learmonth and Carolyn Rovee-Collier*
25. The Effects of Prosody and Linguistic Complexity on Infants' Memory for Speech  
*Colleen McDonough and Gerald McRoberts*
26. Changes in Infant Listening Preferences Provide Further Evidence of Auditory Short-Term Memory Development  
*Colleen McDonough and Gerald McRoberts*

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#### **Fr44 Communication and Language**

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

*Shannon M. Pruden, Mandy J. Maguire, Meredith A. Meyer, Natalie Hansell and Kathy Hirsh-Pasek*

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

#### **Fr45 Social Development**

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

#### **Fr46 Emotional Development**

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

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**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*

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**Fr48 High Risk and Pediatric Issues**

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

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**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*

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**Fr50 Symposium**

**Finding Structure in the Input: What Cues are Infants Using?**

**Chair:** Melanie Soderstrom

**3:00 PM - 4:50 PM**

**Monroe Room**

Prosodic Sensitivity: How Might it be Used?

*Melanie Soderstrom, Irena Foygel and James L. Morgan*

Cue Use in Clause Segmentation  
*Amanda Seidl*

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

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

Discussant: *LouAnn Gerken*

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### **Fr51 Symposium**

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

**Chair:** Sabina M. Pauen

**3:00 PM - 4:50 PM**

**Parlor H Room**

Does Experience with Real-Life Animals Influence Performance in an Object-Examination Task?

*Saina Pauen and Birgit Traeuble*

The Role of Functional Knowledge for Infant Categorization of Artifacts

*Birgit Traeuble and Sabina Pauen*

The Role of Language Acquisition on Infants' Inductive Generalizations

*Laraine McDonough*

Discussants: *Paul Quinn, Jean Mandler*

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### **Fr52 Symposium**

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

**Chair:** Maria Legerstee

**3:00 PM - 4:50 PM**

**Crystal Room**

Imitation Effects on the Interactions of Depressed, Angry and Anxious

*Tiffany Field*

Be Imitated and the Development of Agency

*Jacqueline Nadel and Emilie Legrand*

Imitation as Awareness of Intentional and Rational Action in 10-Month-Olds  
*Maria Legerstee and Catherine Munns*

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

Discussant: *Jean Decety*

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### **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*

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### **Business Meeting and Awards**

**5:00 PM - 6:00 PM**

**Red Lacure 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 Lacure 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**

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**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-Roosevelt, Irina A. Posikera and Stephen W. Porges*

Discussant: *Stephen W. Porges*



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**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 Schonert-Danko*

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 Schonert-Danko and Esther Thelen*

Discussant: *Rick Gilmore*

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**Sa08 Symposium**

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

**Chair:** James G. Elicker

**9:00 AM - 10:50 AM**

**Crystal Room**

Two Ways of Observing Attachment Relationships in Child Care Using the Attachment Q-sort

*Clasien J. de Schipper and Louis W.C. Tavecchio*

Infant-Caregiver Relationships and Continuity of Care

*Illene C. Noppe, Christine Davis, Erin Vandenboogaard and Heather Schoenfeld*

A Descriptive Ethnographic Study of Caregivers' Interactive Behavior in a Daycare setting

*Olga A. Carbonell, German Posada, Garene Kaloustian, Sandra Plata and Gloria Alzate*

Staff-Child Relationships and Child Outcomes in Early Head Start

*James Elicker, Xiaoli Wen and Jill B. Sprague*

Discussant: *Helen Raikes*

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**Poster Session**

**9:30 AM – 11:30 AM**

**Empire Room**

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**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*
  4. Can Parent Reports Be Trusted? Validity of Daily Checklists of Gross Motor Milestone Attainment  
*Jennifer L. Bodnarchuk and Warren O. Eaton*
  5. Season-of-Birth Patterns in Gross Motor Milestone Attainments  
*Warren O. Eaton and Jennifer L. Bodnarchuk*
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**Sa10 Biological Processes**

6. The EEG Asymmetry and Infant Handedness  
*Tatiana A. Stroganova, Natalia P. Pushina, Elena V. Orekhova, Irina N. Posikera, and Marina M. Tsetline*
  7. Undifferentiated Auditory Response of the Occipital and Temporal Cortex in Sleeping Infants  
*Gentaro Taga, Kayo Asakawa, Hama Watanabe and Keisuke Kushiro*
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**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 Bahrck*
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*
12. Visual Selection and Object Perception: How do Infants Now Where to Look?  
*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*

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### **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*
21. Maternal Infant-Directed Language Coherence and its Relation to Infant Grammar Acquisition  
*Laura A. Thompson, Krisstal Clayton, Katie Silva, Peter W. Foltz and J. Malmberg*

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### **Sa13 Cognition Memory and Learning**

22. Mother-Infant Synchrony in Cortisol and Behavior: Relations With Learning in 6-Month-Old Infants  
*Laura A. Thompson, Wenda R. Trevathan, Rosanna Villarreal, Xavier Pena and Elizabeth Arias*
23. Viewpoint Invariant Recognition of Complex Objects in 3-Month-Old Infants.  
*Kimberly Kraebel and Peter Gerhardstein*
24. Infant Categorisation of Humans and Animals - The Role of Bodily Form  
*Emma Axelsson, Derek Moore, Julia Goodwin, Brian Clifford and Gavin Nobes*
25. Generalized Imitation Following Multi-Exemplar Modeling: Already Down to Basic?  
*Barbara Younger, Kathy Johnson and Stephanie Furrer*
26. Infants' Sensitivity to Featural and Configural Changes in Human Faces  
*Richard Le Grand, Daphne Maurer and Catherine Mondloch*
27. Differential Temperament Associations Found for the Looking and Reaching Versions of an Infant Spatial Working Memory Task  
*Christy D. Wolfe and Martha Ann Bell*
28. The Development of a Parental Report Questionnaire of Infant Cognitive Ability  
*Maryhan Baker, Graham Schafer and Katie Alcock*
29. The Role of Hiding Location - Object Type Correlation on Infant Search  
*Mark A. Schmuckler and Melissa Vres*

30. Differential Levels of Object Familiarity Effect Infants' Search Performance in an A-not-B Task  
*Thomas Keenan*
31. Baby Einsteins Everywhere: The Amount and Nature of Television and Video Viewing of Infants Birth to 2 Years  
*Sophia L. 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, Rebacca Starr, Melissa Burch and Patricia Bauer*
34. The Role of Between- and Within-Category Comparisons in Infants' Categorization  
*Kristine A. Kovack, Nicole P. Salvo and Lisa M. Oakes*

### **Sa14 Social Development**

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

### **Sa15 Emotional Development**

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

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**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*

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**Sa17 Psychopathology and Developmental Delay**

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

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**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*

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**Sa19 Other**

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

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## Sa20 Symposium

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

**Chair:** Catherine Tamis-LeMonda

**11:00 AM - 12:50 PM**

**Adams Room**

Talking and Walking: Infants' Social Communications on Risky Paths

*Karen E. Adolph, Catherine Tamis-LeMonda and Martha W. Alibali*

How Infants' Decisions About Action Depend on Understanding Self and Other

*Catherine Tamis-LeMonda, Karen E. Adolph, Lana B. Karasik, Sharon A. Lobo, Katherine A. Dimitropoulou and Elizabeth A. Zack*

Neighborhood Violence on Child and Family Functioning

*Philippe Rochat, Derek Layton, Sarah Poss and Tanya Macgillivray*

Tracing the Developmental Course of Retention of Emotional Communications

*Joseph J. Campos and Matthew Hertenstein*

Discussant: *Chris Moore*

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## 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*

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**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 Chamnongkich*

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

The Ontogeny of Nutcracking Behavior in Semifree Tufted Capuchin Monkeys  
*Briseida Resende, 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*

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**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 Fetters, Kenneth G. Holt and Elliot Saltzman*
9. Toddlers in Wonderland: Scale Errors & Self-Understanding  
*Celia Brownell, Stephanie Zerwas, Geetha Balaraman and Anita Adalja*

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**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 Shuwairi*
16. Means-Ends and Problem Solving in 9 to 18-Month-Old Infants  
*Nathalie Goubet, Jonathan Hart, Philippe Rochat and Sarah Poss*
17. Can a Particular Action be a Goal? Reasoning About Sliding and Lifting Actions in 13.5-Month-Old Infants  
*Hyun-joo Song, Renée Baillargeon and Cynthia Fisher*
18. Infants' Ordinal Judgements: Choosing the Larger of Two Continuous Quantities  
*Kristy vanMarle and Karen Wynn*
19. Face Detection in 3-Month-Old Infants: Behavioral Responses and Neural Correlates  
*Alissa Westerlund, Viola Macchi Cassia, Dana Kuefner and Charles A. Nelson*
20. Developmental Changes in the Infant Event-Related Potential  
*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*
25. A Cross-Contextual Investigation of the Development of Anger Reactivity and Regulation in the First Year  
*Heather K Warren and Cynthia A. Stifter*
26. Mothers' and Infants' Physiological Regulation in the Still-Face Paradigm  
*Cathi Propper, Ginger Moore, Susan Calkins, Katherine Hutchinson and Amy Mariaskin*
27. Mothers at Play: Individual Differences in Maternal Free Play Behavior Are Predicted by Infant Temperament  
*Loretta Rieser-Danner, Tiffany DeShields, Jaime Grossman, AnneMarie Corby and Shelbi Bordner*
28. Anglo and Ethnic-Minority Mothers' Beliefs and Preferences Regarding Toddlers' Emotional Behavior and Regulation  
*Adriana Molitor and Kim Wells*

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### **Sa28 Social Development**

29. Father Involvement: Description and Prediction of Change During the Infant's First Year  
*Shannon Zentall, Julia Braungart-Rieker, and Mark Ersfeld*

30. Predicting Maternal Interactive Style with Toddlers from Maternal Personality  
*Cynthia L. Smith, Elizabeth Harris, Tierney K. Payne, Nancy Eisenberg and Amanda Cumberland*
31. Adult and Infant Perceptions of Facial Attractiveness: The Influence of Video Presentation on Attractiveness Judgments  
*Adam Rubenstein*
32. The Relation of Demographic Cumulative Risk Status to Mother-Child and Father-Child Interactions  
*Tierney K. Payne, Cynthia L. Smith, Elizabeth L. Harris, Karissa A. Greving and Tracy L. Spinrad*
33. The Impact of Maternal Sensitivity on 20-Month-Old Infant-Mother Play  
*Jennifer Baumgardner, Peg Hull-Smith and Wallace Dixon Jr*
34. States of Mind Behind Mind-Mindedness: Adult Attachment Classifications Predicting Maternal Mind-Mindedness  
*Jennifer C. Ablow and Megan E. McDade*
35. Relations Between Attachment Formation and the Neural Correlates of Face Perception in 6-Month-Old Infants  
*Margaret Cox and Leslie Carver*

### **Sa29 Communication and Language**

36. Distributional Properties of Vowel Sounds in Fluent Speech as a Cue to Discriminate Languages  
*Laura Bosch and Núria Sebastián-Gallés*
37. Infants' Flexible Learning of Similar Sounding Words  
*Julia Wales and George Hollich*
38. Facilitation Effects of Function Words for Word Segmentation in Infants  
*Rushen Shi, Janet Werker, Anne Cutler and Marisa Cruickshank*
39. Infants' Use of Proper Names and Count Nouns in Object Individuation  
*Mijke Rhemtulla, Geoffrey D. Hall and Fei Xu*
40. Two-Month-Old Infants Learn the Arbitrary Relation Between a Complex Syllable and an Object in the Presence of Intersensory Redundancy  
*Lakshmi Gogate, Susan Bewley and Li-Fen Chen*
41. Everyday Communication Skills in Children up to 5 years  
*Cocquyt Mie, Zink Inge, Roeyers Herbert, Mommaerts Maurice and Nadjmi Nasser*
42. Measuring Communication Skills in Children up to 5 years, with Cleft Lip and Palate  
*Cocquyt Mie, Zink Inge, Roeyers Herbert, Mommaerts Maurice and Nadjmi Nasser*
43. Prototype Effects in Early Verb Learning  
*Kerstin Meints, Kim Plunkett and Paul L. Harris*
44. Object Parts in Early Word Comprehension  
*Kerstin Meints and Nicola Jones*

### **Sa30 High Risk and Pediatric Issues**

45. Young Infants in a Romanian Orphanage: Response to Sensitive Caregiving Over Two Weeks Time  
*Mary Jo Krahn Krahn*

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

### **Sa31 Psychopathology and Developmental Delay**

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

### **Sa32 Early Environments and Social Policy**

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

### **Sa33 Undergraduate Research**

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

### **Sa34 Other**

58. The Relation Between 3- to 9-Month-Old Infants' Perception of Catchableness and Task Constraints  
*Paulion van Hof, John van der Kamp and Geert Savelsbergh*

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### 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*

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### Sa36 Symposium

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

**Chair:** H el ene 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.

*H el ene 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*

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**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*

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**Sa38 Symposium**

**Disruptive Behavior Problems in the General Population of Very Young Children**

**Chair:** Raymond H. Baillargeon

**1:00 PM - 2:50 PM**

**Crystal Room**

Comorbidity Among Disruptive Behavior Problems Before Two Years of Age: The Québec Longitudinal Study of Children Development  
*Raymond H. Baillargeon*

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

Early Social-Emotional and Behavioral Trajectories to Kindergarten Social-Emotional and Academic Skills.  
*Stephanie M. Jones, Alice S. Carter and Margaret Briggs-Gowan*

Discussant: *Kate Keenan*

**Poster session**

**1:30 PM – 3:30 PM**

**Empire Room**

**Sa39 Motor and Sensorimotor Behavior**

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

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**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*

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**Sa41 Perception and Attention**

7. Vagal Nerve Reactivity: A Neural Substrate in the Detection of Arbitrary/Artificial Pairings in 3 ½ 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 Slemmer, Dima Amso and Scott P Johnson*
14. Optical Neuroimaging Reveals Early Frontal Lobe Activation during Language Exposure  
*Heather Bortfeld and Eric Wruck*
15. Limits on the Number of Active Object Indexes in Infancy  
*Erik Cheries, Karen Wynn and Brian Scholl*

16. Cohesion Violations Disrupt Number  
*Erik Cheries, Steve Mitroff, Karen Wynn and Brian Scholl*
17. A Neonatal Bias for Speech That is Independent of Experience  
*Athena Vouloumanos and Janet Werker*

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#### **Sa42 Communication and Language**

18. Learning First Words in a Probabilistic Environment  
*Athena Vouloumanos and Janet Werker*
19. The Relationship of Maternal Availability to Infant Pointing  
*Jaclyn Cheek, Jaime L. Dice and Hui-Chin Hsu*
20. The Specificity of Parental Language Input and Children's Language Competencies  
*Tonia N. Cristofaro, Eileen aRodriguez, Lisa Baumwell, Catherine Tamis-LeMonda and Maria Nakae*
21. Event-Related Potential Features of the Suprasegmental Speech Cues Processing in Hungarian  
*Anett Rago, Ferenc Honbolygo, Valeria Csepe, Zsofia Rona and AnnaBeke*
22. Shyness, Joint Attention and Language Skill  
*Nicolle Angeli, Roger Bakeman and Lauren B. Adamson*
23. The Relationship Between Maternal Extroversion and Child Language and Vocabulary  
*Aimee Rustman, Jennifer DeGroot Hanawalt and Ty Partridge*
24. What Does a Good Baby-Word Sound Like?: Japanese Adults' Intuitive Judgments About a Good Child-Directed Vocabulary  
*Reiko Mazuka, Akiko Hayashi, Maki Takahashi and Tadahisa Kondo*
25. A Longitudinal Analysis of Children's One-to-One Correspondence Behaviors  
*Joe Anderson, Kelly Mix*

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#### **Sa43 Cognition Memory and Learning**

26. Detecting Visual-Proprioceptive Contingency Contribute to Childlren's Self-Recognition on Delayed Feedback  
*Michiko Miyazaki and Kazuo Hiraki*
27. When Frustrations Are Repeated: Infant Behavior and Emotions  
*Angela Crossman, Margaret Sullivan and Daniel Hitchcock*
28. Infants' Novelty Preferences Reverse When Objects Are Hidden: Shedding Light on Potential Mechanisms of Object Concept Development  
*Jeanne Shinskey and Yuko Munakata*
29. Nine-Month-Old Infants Connect Action Goals to Individual Agents  
*Jennifer Sootsman and Amanda Woodward*
30. Infants' Use of Heuristics in Search: The Development of Sensitivity to Cues for Containment  
*Daniel McCall, Tamara Affigato and Marcy Adler*
31. Understanding of Social Cues in an Object-Choice Task. A cComparative Study With 2.5-Year Old Children and Great Apes  
*Jochen Barth, Josep Call and Michael Tomasello*
32. Assessment of Spatial Cognition in 2.5-Year Old Children and Great Apes  
*Jochen Barth and Josep Call*

33. Orientation Specificity for Infant Event Representations  
*Peter Gordon, Kristen Bellanca, Margaret Heller, Noa Porath and George Castle*
34. What You See is Not Always What You Get: Showing Effects of Event Structure  
*Peter Gordon, Alisa Matlin, Nicholas Joy, Erin Aylward and Janet Eisenband*
35. Infant Motor Patterns and Memory Function in the Conjugate Reinforcement Mobile Task  
*Hama Watanabe, Gentaro Taga, Keisuke Kushiro and Kayo Asakawa*
36. The Development of Gaze Following in Naturalistic Interactions: Behavioral Evidence From 3- to 12-Month-Old Infants  
*Gedeon Deák, Leigh Sepeta, Jochen Triesch and Eric Carlson*

#### **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*
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#### **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*
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#### **Sa47 Psychopathology and Developmental Delay**

54. Anomalies of Prenatal Development: Dermatoglyphic Asymmetries Predict Impulsive, Aggressive, Acting out Behaviors.  
*Kathryn S. Lemery, Nicole L. Schmidt, Amanda A. Justen and H. Hill Goldsmith*
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#### **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 Örnkloo, and Claes von Hofsten*

Bridging the Gap: Infants' Ability to Use Prior Knowledge to Solve New Problems After a Delay

*Harlene Hayne and Julien Gross*

Discussant: *Gisa Aschersleben*

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### **Sa53 Symposium**

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

**Chair:** Joseph J. Campos

**3:00 PM - 4:50 PM**

**Crystal Room**

Does the Moving Room Elicit Emotional Responses in Locomotor-Experienced Infants?

*Tim Poore, Joseph J. Campos, David Anderson, Diane Anderson, and Ichiro Uchiyama*

The Use of a Powered-Mobility-Device to Study Locomotor Experience and Visual Proprioception

*Ichiro Uchiyama, David I. Anderson and Joseph J. Campos*

Does Locomotor Experience Affect Responsiveness to Terrestrial Optic Flow?

*Laure Lejeune*

Does Visual Proprioception Affect Avoidance of Heights?

*Joseph Campos, Carl Frankel, Laure Lejeune, David I. Anderson, and David Witherington*

Discussant: *David Anderson*

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### **Sa54 Keynote Address**

Dr. T. Berry Brazelton

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

**5:00 PM – 6:15 PM**

**Grand Ballroom**

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 Abrams, Scott **Fr45**  
 Abramsky, Tanya **Th36**  
 Acevedo, Maria **We11**  
 Acosta, Susan **We05**  
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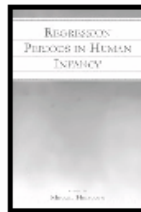
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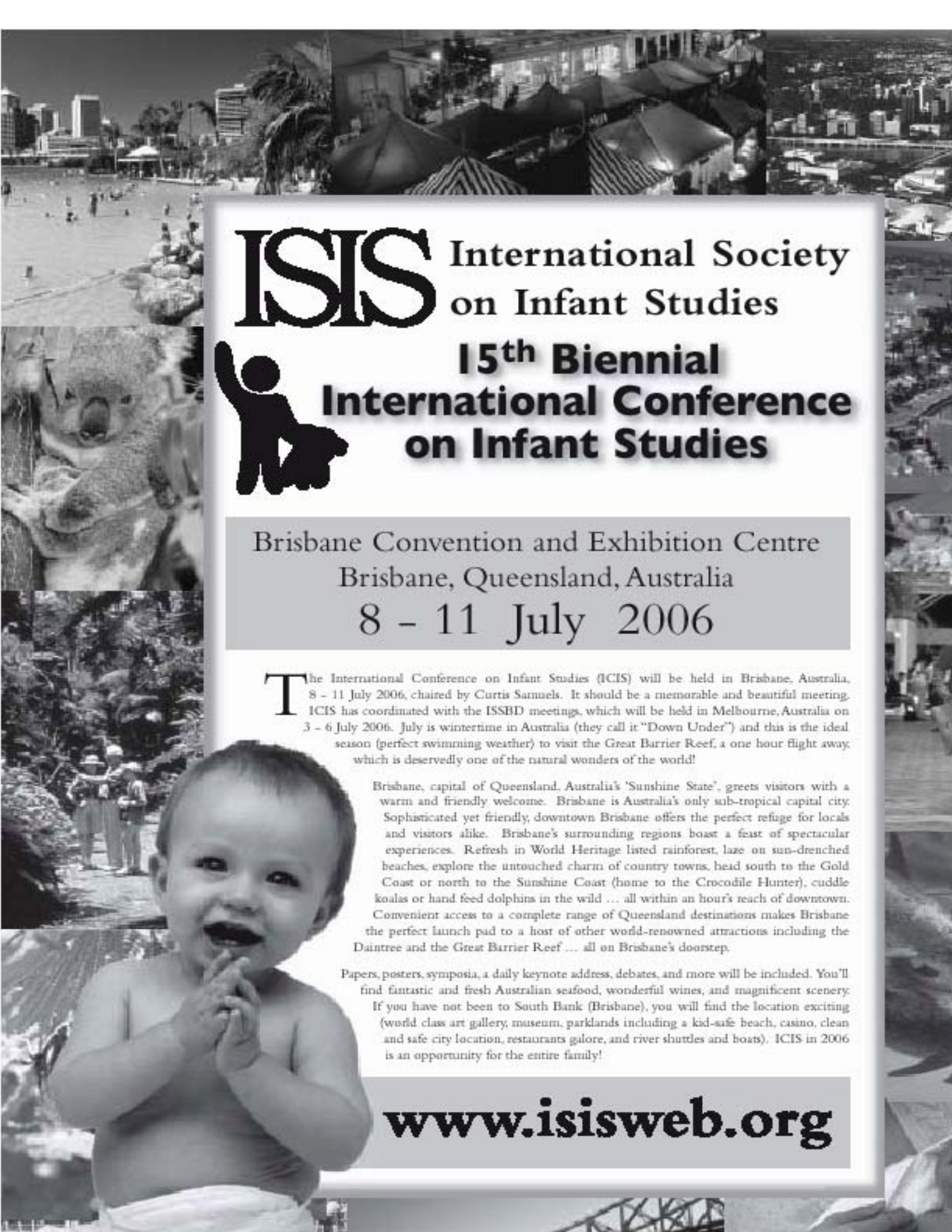
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Brisbane, Queensland, Australia  
8 - 11 July 2006

**T**he 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 wintertime 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, capital of Queensland, Australia's 'Sunshine State', greets visitors with a warm and friendly welcome. Brisbane is Australia's only sub-tropical 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, laze 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.

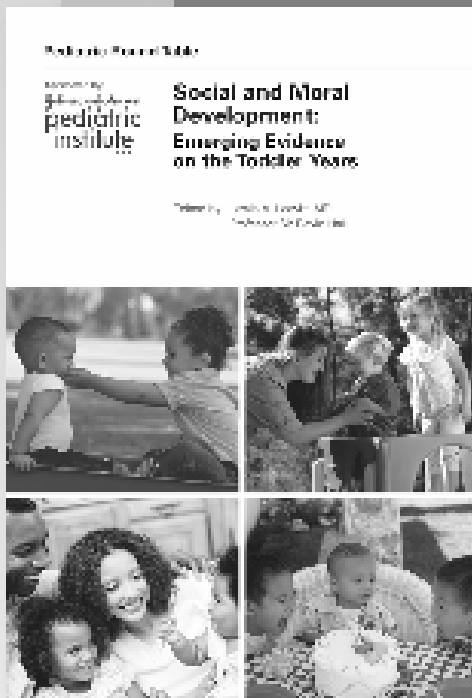
Papers, posters, symposia, a daily keynote address, debates, and more will be included. You'll find fantastic and fresh Australian seafood, wonderful wines, and magnificent scenery. If you have not been to South Bank (Brisbane), you will find the location exciting (world class art gallery, museum, parklands including a kid-safe beach, casino, clean and safe city location, restaurants galore, and river shuttles and boats). ICIS in 2006 is an opportunity for the entire family!

[www.isisweb.org](http://www.isisweb.org)

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This new offering in the prestigious Pediatric Round Table series presents 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 bully-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

