International Conference on Infant Studies

PROGRAM

April 18 – 21, 2002
Toronto, Ontario, Canada
Royal York Hotel
Infant Chimpanzee and Human Child
A Classic 1935 Comparative Study of Ape Emotions and Intelligence
the late N. N. LADYGINA-KOHTS,
Edited by FRANS B. M. DE WAAL,
Translated by BORIS VEKKER
Here is the first complete English translation of N.N. Ladygina-Kohts' journal chronicling her pioneering work with the chimpanzee Jonti.
(Series in Affective Science)
2002 592 pp. $65.00

New in paperback
Imaginary Companions
and the Children Who Create Them
MARJORIE TAYLOR
"Engrossing reading for those whose children have invisible pals or who had them themselves, and for those interested in creativity and in how children develop conceptions of reality."—Booklist
paper 2001 224 pp. paper $14.95

Becoming a Word Learner
A Debate on Lexical Acquisition
ROBERTA MICKNICK GOLUNKOFF,
KATHRYN HIRSH-PASEK, LOIS BLOOM, LINDA B. SMITH, AMANDA L. WOODWARD, NAMEERA AKHTAR, MICHAEL TOMASELLO, and GEORGE HOLICH
This insightful book presents, by the pioneering researcher, competing word acquisition theories that have emerged in the past decade.
(Counterpoints: Cognition, Memory, and Language)
2000 216 pp. cloth $50.00/ paper $24.95

Quantitative Development in Infancy and Early Childhood
KELLY S. MIX, JANELLEN HUTTENLOCHER, and SUSAN COHEN LEVINE
This much-anticipated book explores key issues raised by new findings in the study of quantitative development.
March 2002 192 pp. $35.00

Infancy to Early Childhood
Genetic and Environmental Influences on Developmental Change
Edited by ROBERT N. EMDE and JOHN K. HEWITT
This is the first complete publication from the MacArthur Longitudinal Twin Study (MALTS), the most ambitious and comprehensive longitudinal twin study to date.
2001 414 pp. $49.95

An Ecological Approach to Perceptual Learning and Development
ELEANOR J. GIBSON and ANNE D. PICK
"A most welcome addition to the field of perceptual development, indeed to the whole discipline of child development.... The scholarship is deep, accurate, and thorough."—Rachel K. Clifton,
University of Massachusetts, Amherst
2000 248 pp. $39.95

The Developing Visual Brain
JANETTE ATKINSON
This book provides the definitive account of what we know about the developing visual system and the problems that can occur during development.
(Oxford Psychology Series 32)
2000 240 pp. $90.00

Learning Together
Children and Adults in a School Community
BARBARA ROGOFF, CAROLYN GOODMAN TURKANIS, and LESLIE BARTLETT
This book puts into practice the theoretical account Rogoff presented in her highly acclaimed book, Apprenticeship in Thinking.
2001 272 pp. $29.95

Attention in Early Development
Themes and Variations
HOLLY ALLIGER RUFF and MARY KLEVORD ROTHBART
"Readers of developmental psychology and attention researchers interested in the origins and development of their topic should read this book."—Quarterly Journal of Experimental Psychology
2001 312 pp. paper $24.95/ cloth $45.00

Forthcoming
Early Category and Concept Development
Making Sense of the Blooming, Buzzing Confusion
DAVID H. RAKISON and LISA M. OAKES
October 2002 400 pp. cloth $65.00/paper $35.00

Forthcoming
The Cultural Nature of Human Development
BARBARA ROGOFF
September 2002 240 pp. $25.00

Visit the OUP booth and save 20%!
How can you possibly eye track an infant? ASL has been assisting infant eye tracking researchers since 1978. Our unique remote eye tracking system allows researchers to track infants without attaching optics to their head. The small remote optics provides many benefits when working with infants and toddlers.

Features designed for infants and toddlers with their spontaneous movements:
- Locating camera for quick location of infant eye. Eliminates trial and error.
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- A small 8 mm sensor attached to a magnetic head tracker will work with the pan/tilt to insure the head/eye is tracked, even when fast or jerky movements occur.

- Calibration is quick and easy and can be done with as little as 2 points.
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Email: asi@a-s-l.com
Web site: www.a-s-l.com
This up-to-date overview of the fast-moving field of infant development covers all the major areas of interest in terms of research, applications, and policy. Each of the 26 chapters is written by a leading international researcher and offers a current review of the theory and research findings in his or her particular area of expertise. The volume is divided into four sections on perception and cognition; social, emotional, and communicative development; risk factors in development; and contexts and policy issues. Integration and coherence across the Handbook are provided by editorial commentaries prefacing each section.

About the Editors:
Gavin Bremner is Professor of Developmental Psychology at the University of Lancaster. He is the author and editor of many books, including Infancy, Second Edition (Blackwell Publishers, 1994).

Alan Fogel is Professor of Psychology at the University of Utah and the author of Infancy: Infant, Family and Society (Fourth Edition, 2001) amongst other publications.
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ICIS 2002, Toronto

Message from ICIS 2002 Co-chairs

A warm welcome to each and every delegate at the XIII biennial conference of the International Society on Infant Studies. This year's conference features presenters from several countries and a variety of presentation formats, including keynote addresses, debates, symposia, discussions, and posters. We hope the conference will provide intellectual nourishment, collegial engagement, and inspiration for creative contributions to infancy research.

After the Thursday sessions, please join us at the Welcoming Reception (5:30pm, Concert Hall Foyer). On Friday, help us celebrate the legacy of Hanuš Papoušek at the Presidential Symposium (4:30pm, Concert Hall) and the Presidential Reception (6:30pm, Concert Hall Foyer) that follows.

Meetings such as these don't just happen. People—lots of them—make them happen. We are extremely grateful to those who helped translate our ideas about ICIS 2002 into reality.

- Conference co-chairs from ICIS 2000 (Brighton) and ICIS 1998 (Atlanta), who shared their collective wisdom,
- Members of the ISIS Executive Board, for their unwavering support and encouragement,
- Johnson & Johnson Pediatric Institute, for generous contributions to our educational program and to the Presidential Reception,
- Lawrence Erlbaum Associates, for sponsoring the Welcoming Reception and providing delegate bags,
- Katalin Dzinas, for heroic efforts on local arrangements and program scheduling,
- Vladistock Kosarev, our computer wizard, who organized the conference website and abstract CD,
- Ron Matthews, the mastermind behind the ICIS 2002 program book,
- Glenn Schellenberg, whose plans for a gala reception at the Bata Shoe Museum could not be realized,
- Debra Davis, Pearl Behl, Rosemary Deliso, Shauna Kingsnorth, Derryn Jewell, and Vanessa Bhagoutie, for assistance with registration, conference materials, and numerous tasks, large and small,
- Panel chairs and reviewers whose names are listed on page viii, and
- Finally, all presenters at ICIS 2002, who provided the real reason for getting together.

Mark Schmuckler & Sandra Trehub, ICIS 2002 co-chairs
Remembering Hanuš Papoušek

Looking forward to our gathering to celebrate another two years of international research on infancy, we must also look back to the loss of a historic figure in our field. Hanuš Papoušek was honored by his election to the presidency of ISIS in recognition of his contributions and leadership in the field for over 40 years. In each of the past decades this Czech pediatrician made a mark on the direction of our thinking both through empirical innovations and theoretical advances.

Papoušek became known to Western researchers in the 60’s through his head-turning paradigm used in the study of infant learning. In those years, Western psychology was strong on assimilation and weak on accommodation, as evidenced by the early reaction to the work of Inhelder and Piaget, good friends of Hanuš, in which their dynamic model of cognitive development was converted into a source of new items for intelligence tests. Similarly, Papoušek’s use of conditioned head-turning to study early differences in temperament in the Pavlovian tradition was converted to a new technique for demonstrating the earliest learning. The study of temperament in the West inspired by Thomas and Chess was still a decade away.

Although the Czechoslovak setting of his work had significant personal disadvantages, there were also many scientific advantages. In contrast to the dominant paradigm in the West, in which infants were tested only once for a few minutes in a newborn nursery, the availability of a facility filled with infants during their first six months of life provided the opportunity for true longitudinal studies of psychological processes. This possibility of daily sessions over a six-month period permitted the detailed observation of the development of the capacity to learn. Using this environment, Papoušek found it critical to match the requirements of the paradigm to the developmental status of the child, prefiguring J. McV. Hunt’s concept of the importance of this match by a number of years.

Bringing his skills to Harvard, Papoušek influenced the work of the many infancy researchers there, especially in Jerome Bruner’s laboratory. During that period he joined the cognitive revolution and reframed much of his work to fit this more complex developmental paradigm. His contact with the European ethologists, especially Eibl-Eibesfeldt, reinforced his interest in the phylogeny of behavior in tandem with his work on the ontogeny of behavior. He and Mechthild Papoušek became very interested in the evolution of relationships, thus augmenting the more usual emphasis on the evolution of individual behavior. Their collaborative work on intuitive parenting, in which the biologically organized behavior of the parent was found to be attuned to the biologically organized behavior of the infant, still stands as a major contribution to our understanding of early social interactions.

Hanuš Papoušek was a man for all seasons, bringing his own interpretation and research orientation to each phase in the development of our discipline, consistently and creatively integrating behavioral and biological influences on early behavior. The breadth of his competencies and contributions will be missed.

Arnold Sameroff, Acting President
Review Panels

1. Motor and Sensorimotor Processes  
   Chair: Karen Adolph  
   Reviewers: Neil Berthier, Melissa Clearfield, Marion Eppler, Jeff Lockman, Steve Robertson, Esther Thelen, Beverley Ulrich, Beatrix Vereijken

2. Biological Processes  
   Chair: Dario Maestripieri  
   Reviewers: Susan L. Andersen, Bennett Bertenthal, Megan R. Gunnar, William D. Hopkins, Seth D. Pollak, Stephen W. Porges, William P. Smotherman

3. Perception and Attention  
   Chair: Martha Arterberry  
   Reviewers: Dick Aslin, Lorraine Bahrick, Jim Dannemiller, Barbara D’Entremont, Michael Kasek, Barbara Morrongiello, John Richards, Susan Rose, Mark Strauss

4. Communication and Language  
   Chair: Jenny Saffran  
   Reviewers: Nameera Akhtar, Dare Baldwin, Paul Bloom, Robin Cooper, Catherine Echols, Anne Fernald, Cindy Fisher, Roberta Golinkoff, Rebecca Gomez, Kathy Hirsh-Pasek, Michael Tomasello, Sandra Waxman

5. Cognition, Memory, and Learning  
   Chair: Yuko Munakata  

6. Social Development  
   Chair: Maria Legerstee  
   Reviewers: Joanna Blake, Marc Bornstein, Alan Fogel, Darwin Muir, Philippe Rochat, Tricia Striano, Ed Tronick, Arlene Walker-Andrews

7. Emotional Development  
   Chair: Mary Rothbart  
   Reviewers: Karen Barrett, Joseph J. Campos, Linda A. Camras, Susan D. Calkins, Cynthia Garcia Coll, Carol Magai, Cynthia Stifter

8. High Risk and Pediatric Issues  
   Chair: Ronald Barr  
   Reviewers: Kathryn Barnard, Sue Campbell, Linda Fettes, Judith Gardner, Megan R. Gunnar, Michael Lewis, Betsy Lozoff, Ann Murray, Ian St. James-Roberts

9. Psychopathology and Developmental Delay  
   Chair: Helen Tager-Flusberg  
   Reviewers: Alice Carter, Geraldine Dawson, Elizabeth Dykens, Robert Joseph, Carolyn Mervis, Marian Sigman

10. Early Environments and Social Policy  
    Chair: Jeanne Brooks-Gunn  

11. Other  
    Chair: Philip D. Zelazo  
    Reviewers: Andrea Aguiar, Thomas C. Dalton, Lisa M. Oakes, Kelly Mix, David Moore, Paul C. Quinn
General Information

Photocopy, Faxes and Web Access
The Royal York Hotel offers the use of its Xerox Business center to all hotel guests. The business center has facilities for photocopying, document scanning, facsimile transmission, courier service, printing of power point presentations, and so on. The business center is open from Monday to Friday, 7:00am - 10:00pm, weekends from 10:00am - 6:00pm. It is located on the lobby level at the east end of hotel.

Next to the business center is the Royal York work center. The work center, which is available for the use of hotel guests, has computer work stations offering web and email access.

On-Site Catering
The Royal York Hotel has nine food and beverage dining outlets, as well as a simple coffee and muffin shop.

Other Facilities
The Royal York Hotel has a fully equipped Health Club and Pool (complimentary to all hotel guests), 24-hour room service, American Express Travel Service (complete with airline companies, sightseeing service, car rental agency and Bell cellular phone access), several shops and boutiques, and access to one of the largest underground shopping networks in the world. In addition, the Royal York has direct access to the city's safe subway system, with easy access to all parts of Toronto.

Registration Hours
Thursday: 9:00am - 5:00pm
Friday: 9:00am - 5:00pm
Saturday: 9:00am - Noon

Conference Abstracts
Conference abstracts on CD 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. For ease of printing, the conference CD also has PDF versions of all abstracts.

Exhibitors
The book exhibit, which is in the Canadian Room, will be open at the following times:

Thursday: 12:30pm - 4:30pm
Friday: 9:00am - 3:30pm
Saturday: 9:00am - 4:30pm
Sunday: 9:00am - Noon

Messages
A message board for the use of delegates is located near the registration desk.
## Conference Schedule at a Glance
### Thursday

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<th>Location</th>
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<th>Event Description</th>
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### Welcoming Reception
- Complimentary nibbles (courtesy of Lawrence Elbaum Associates)

- Paul Bloom

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<th>Location</th>
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### Keynote
- Paul Bloom
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<th>ONTARIO</th>
<th>CONFEDERATION</th>
<th>TUDOR</th>
<th>TERRITORIES</th>
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<td>Discussion</td>
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<td>Poster Group</td>
<td>Statistical learning</td>
<td>Self-moving objects</td>
<td>Affective interaction</td>
<td>Visual proprioception</td>
<td>Distractibility</td>
<td>Fr05</td>
<td>Fr06</td>
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<td>10:00</td>
<td>Fr07 – Fr16</td>
<td>Fr01</td>
<td>Fr02</td>
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<td>Poster Group</td>
<td>Baby math</td>
<td>Fr17</td>
<td>Fr18</td>
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<td>Biology of mothering</td>
<td>Motionese</td>
<td>Spatial reference</td>
<td>Prenatal influences</td>
<td>Toddler intervention</td>
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<td>Fr38 – Fr45</td>
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<td>Papoušek tribute</td>
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<td>6:30</td>
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## Saturday

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<tr>
<th>Time</th>
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<th>Session</th>
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| 9:00  | Canadian | Poster Group
Sa05 - Sa12 |  
| 10:00 | Canadian | Poster Group
Sa18 - Sa25 |  
| 11:00 | Canadian | Poster Workshop
Sa26 |  
| 1:00  | Canadian | Poster Group
Sa32 - Sa41 |  
| 2:00  |          | Keynote
Marc Hauser |  

### TERRITORIES

<table>
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<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
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</table>
| 9:00  | Salon A  | Symposium
Biobehavioral rhythm disruption |  
| 10:00 | Salon A  | Symposium
Impact of depression on others |  
| 11:00 | Salon A  | Symposium
Bucharest intervention project |  
| 1:00  | Salon A  | Symposium
Discussion |  
| 2:00  | Salon A  | Symposium
Infant research training |  
| 3:00  | Salon A  | Symposium
Prematurity & interaction |  

### CONFEDERATION

<table>
<thead>
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<th>Time</th>
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| 9:00  | Tudor    | Symposium
Gaze processing I |  
| 10:00 | Tudor    | Symposium
Perceptual organization |  
| 11:00 | Tudor    | Symposium
Connectionist approaches |  
| 1:00  | Tudor    | Symposium
Speech & language |  
| 2:00  | Tudor    | Symposium
Maternal depression |  
| 3:00  | Tudor    | Symposium
Consciousness |  

### CONCERT

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| 9:00  | Ontario  | Symposium
Manipulating representations |  
| 10:00 | Ontario  | Symposium
Understanding others |  
| 11:00 | Ontario  | Symposium
Debate |  
| 1:00  | Ontario  | Symposium
Tool use |  
| 2:00  | Ontario  | Symposium
Tool use |  
| 3:00  | Ontario  | Symposium
Tool use |  

### ENJOY TORONTO ON YOUR OWN!

XV
<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CANADIAN</th>
<th>CONCERT</th>
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<td>Poster Group</td>
<td>Gaze processing II</td>
<td>Su01</td>
<td>Look/reach dissociations</td>
<td>Su02</td>
<td>Perinatal stress</td>
<td>Illusory contours</td>
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<td>A-not-B error</td>
<td>Language &amp; thought</td>
<td>Artifact functions</td>
<td>Su15</td>
<td>Maternal expectations</td>
<td>Eye-tracking methods</td>
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<td>Su14</td>
<td>Su15</td>
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Invited Program

**Keynote Addresses**

*How children learn the meaning of words*

*Paul Bloom*

Chair: *Sandra Waxman*
Thursday, 4:30pm - 5:30pm, Concert Hall

*Evolutionary constraints on object knowledge*

*Marc Hauser*

Chair: *Michael Tomasello*
Saturday, 5:00pm - 6:00pm, Concert Hall

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**Presidential Symposium**

*Hanus Papousek through his colleagues’ eyes*

Chair: *Arnold Sommerich*
Participants: *Lewis P. Lipsitt, Marc H. Bornstein, Stephen Suomi*
Friday, 4:30pm - 6:20pm, Concert Hall

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**Symposia**

A tribute to the contributions of Peter W. Jusczyk
Chair: *Richard N. Aslin*
Thursday, 2:00pm - 3:50pm, Ontario Room

Affective interaction: A tool for social and cognitive development
Chair: *Maria Legerstee*
Friday, 9:00am - 10:50am, Tudor Room

Perspectives on the early development of consciousness
Chair: *Philip D. Zelazo*
Saturday, 3:00pm - 4:50pm, Ontario Room

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**Talks and Debates**

Can babies really do math?
Debaters: *Karen Wynn, Leslie Cohen*
Moderator: *Yuko Munakata*
Friday, 11:00am - 12:50pm, Ontario Room

Attachment theory: Is it relevant universally?
Debaters: *Everett Waters, Fred Rothbaum*
Moderator: *Susan Goldberg*
Thursday, 2:00pm - 3:50pm, Confederation Room

The pros and cons of cochlear implants
Debaters: *Derek Houston, Christine Yoshinaga-Itano*
Moderator: *Kathy Hirsh-Pasek*
Saturday, 1:00pm - 2:50pm, Ontario Room

The biology of mothering
Speaker: *Alison Fleming*
Chair: *Marc H. Bornstein*
Friday, 1:00pm - 2:00pm, Ontario Room
Pre-Conference Meetings

ISIS Publications Committee
Thursday, April 18
8:00am - 9:00am
ALGONQUIN ROOM
Contact: Rachel Clifton or Arnold Sameroff

ISIS Executive Committee
Thursday, April 18
9:00am - Noon
ALGONQUIN ROOM
Contact: Rachel Clifton or Arnold Sameroff

Touch Research Symposium
Thursday, April 18
8:00am - Noon
CONFEDERATION ROOM
Contact: Tiffany Field
<table>
<thead>
<tr>
<th>Exhibitors</th>
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<tr>
<td><strong>Academia Book Exhibits</strong></td>
</tr>
<tr>
<td>3925 Rust Hill Place</td>
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<tr>
<td>Fairfax VA 22030 USA</td>
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<tr>
<td>Phone: 703-716-5537</td>
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<tr>
<td>Fax: 703-691-2422</td>
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<tr>
<td>Email: <a href="mailto:kjacob@acadbkex.com">kjacob@acadbkex.com</a></td>
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<tr>
<td><strong>Allyn &amp; Bacon / longman</strong></td>
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<td>75 Arlington Street, Suite 300</td>
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<td>Boston, MA 02116</td>
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<tr>
<td><strong>Applied Science Laboratories</strong></td>
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<tr>
<td>175 Middlesex Turnpike</td>
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<td>Bedford, MA 01730 USA</td>
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<td>Phone: (781) 273-4000</td>
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<td>Fax: (781) 273-3388</td>
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<td><strong>Lawrence Erlbaum Associates</strong></td>
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<td><strong>McGraw-Hill Higher Education</strong></td>
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<td>McGraw-Hill Companies</td>
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<td><strong>Oxford University Press</strong></td>
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<td>Phone: 212-726-6000</td>
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<td>Fax: 212-726-6440</td>
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<tr>
<td><strong>Triangle Research Collaborative</strong></td>
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<tr>
<td>P.O. Box 12167, Research Triangle Park (RTP)</td>
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<td>North Carolina 27709-2167 USA</td>
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<td>Phone: (919) 549-9093</td>
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<td>Fax: (919) 549-0493</td>
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<td>Email: <a href="mailto:info@TRCtech.com">info@TRCtech.com</a></td>
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Samples of Toronto

Art Gallery of Ontario (AGO)
317 Dundas Street West
Walk north on University Avenue to Dundas Street, then west on Dundas Street; or University/Spadina subway to St. Patrick station.
- Experience YES YOKO ONO, a multimedia retrospective of Yoko Ono’s work.
- The AGO also houses the largest permanent Henry Moore collection (plasters, bronzes, drawings) in the world.

Chinatown
Along Dundas Street west of Art Gallery of Ontario, and continuing north on Spadina.
- Shops and restaurants involving Chinese, Vietnamese and Thai fare.

Royal Ontario Museum (ROM)
100 Queen’s Park
Take University/Spadina subway to Museum station.
- 45 galleries showcasing art, archeology, and science.

Gardiner Museum of Ceramic Art
111 Queen’s Park
(across the street from the Royal Ontario Museum)
- Ceramics from Europe, Asia, and the Americas.

The Bata Shoe Museum
327 Bloor Street West
Take University/Spadina subway to St. George station.
- Footwear from diverse cultures and periods.

Union Station
(across the street from the Royal York Hotel)
- Built in the Parisian beaux-arts style, in operation since 1927.

St. Lawrence Market
Walk 4 blocks east along Front Street past historic Toronto buildings.
- Toronto’s largest indoor market.
- Open Tuesdays to Saturdays, has been in operation since 1803.
- Quick ethnic or American lunches are available on the lower level.

Theater
- Toronto has more than 75 venues for live theater.
- Consult the Royal York concierge for current offerings.

Funky
Walk along Queen Street West.
- Interesting boutiques, edibles, and characters.

Fashionable
Take University/Spadina subway to Museum, walk north, just past Bloor Street and wander along Cumberland and Yorkville Avenues.
- Cafés and pricey boutiques.

University of Toronto
Take University/Spadina subway to Queenspark.
- Visit the historic parts of the campus on King’s College Circle.
# Conference Program

**Thursday, April 18, 2002**

<table>
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<tr>
<th>Th01</th>
<th>Symposium</th>
<th>Chair: <em>Bennett I. Bertenthal</em></th>
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<tbody>
<tr>
<td><strong>From action to intention</strong></td>
<td>12:00pm - 1:50pm</td>
<td><strong>ONTARIO</strong></td>
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<tr>
<td>When do actions become intentional?</td>
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<td><em>Claes von Hofsten</em></td>
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<tr>
<td>Early development of goal-directed actions</td>
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<td><em>Bennett I. Bertenthal</em></td>
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<tr>
<td>Infants’ developing sensitivity to the intentional structure of action</td>
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<td><em>Amanda Woodward, Jessica Somerville</em></td>
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<td>Infants’ ability to perceive the structure that actors produce</td>
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<td><em>Dare Baldwin</em></td>
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<td>Discussant: <em>Richard N. Aslin</em></td>
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<th>Th02</th>
<th>Symposium</th>
<th>Chair: <em>Jane B. Childers</em></th>
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<tr>
<td><strong>Verb learning in infancy</strong></td>
<td>12:00pm - 1:50pm</td>
<td><strong>CONFEDERATION</strong></td>
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<tr>
<td>Eating houseplants and biting horses ... Typicality effects in early verb learning</td>
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<td><em>Kerstin Meints</em></td>
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<tr>
<td>Toddlers’ use of verbs as cues to an actor’s intentions</td>
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<td><em>Douglas A. Behrend, Angelika Wittek</em></td>
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<td>Syntactic flexibility is revealed in children’s first verb uses: Evidence from a cross-sectional diary study</td>
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<td><em>Letitia R. Naigles, Donna Year, Erika Hoff</em></td>
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<td>Early nouns and verbs acquired by Ngas infants in Nigeria</td>
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<td><em>Jane B. Childers</em></td>
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<td>Discussant: <em>Kathryn Hirsh-Pasek</em></td>
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<th>Th03</th>
<th>Symposium</th>
<th>Chair: <em>Terri L. Lewis</em></th>
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<tbody>
<tr>
<td><strong>Looking at babies’ vision</strong></td>
<td>12:00pm - 1:50pm</td>
<td><strong>TUDOR</strong></td>
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<tr>
<td>Neural limitations on visual development in primates</td>
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<td><em>Lynne Kiopres</em></td>
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<td>Perceptual organization at birth</td>
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<td><em>Francesca Simion, Viola Macchi Cassia, Chiara Turati</em></td>
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<td>Mechanisms of visual form processing in 4- to 5-month-old infants</td>
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<td><em>Ann M. Skoczenski</em></td>
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<td>Searching for visual primitives: What babies like to look at</td>
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<td><em>Ruxandra Stiuteanu, Manuela Wagner, Iris Bachert</em></td>
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<td>Discussant: <em>Terri L. Lewis</em></td>
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<td>Session</td>
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<td>Th04</td>
<td>Symposium Examing the effectiveness of three models of relationship-focused early intervention</td>
<td>Chair: Gerald Mahoney 12:00am - 1:50pm TERRITORIES</td>
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<tr>
<td></td>
<td>Comparison of the effects of responsive teaching on young children with autism/PDD and children with other disabilities</td>
<td>Gerald Mahoney, Frida Perales</td>
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<td>Supporting the infant-mother relationship from the NICU through the first year of early intervention services</td>
<td>Glenna Boyce, Adrienne Akers</td>
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<td>A long term follow-up of the effects of the Hannen programs on toddlers with significant language delays</td>
<td>Luigi Giralmetto, Elaine Weitzman</td>
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<td>Discusant: Rosemary Tannock</td>
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<td>Th05</td>
<td>Kicking and movement</td>
<td>12:30pm - 2:20pm CANADIAN</td>
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<td>Effects of a motor skill intervention on infants exposed to deprived environmental conditions</td>
<td>Carola Frank Adalbjoornsson, Mary E. Rudisill</td>
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<td>Effects of temperature on bottle feeding and movement in young infants</td>
<td>Leigh F. Bacher, Steven S. Robertson, William P. Smotherman</td>
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<td>Effects of constraints on the emergence of kicking in young infants</td>
<td>Yu-ping Chen, Linda Fetters, Elliot Saltzman, Kenneth G. Holt</td>
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<td>Learning measures in infancy using a mobile task</td>
<td>Daniela Deman, Rosa M. Angulo-Kinzler</td>
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<td>Age differences in perturbation-induced stretch reflex sensitivity during active leg kicking</td>
<td>Jing Feng, Esther Thelen</td>
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<td>Comparative study of spontaneous movement of human and chimpanzee infants in the first few months of life</td>
<td>Rieko Takaya, Gentaro Taka, Yukuo Konishi, Hideko Takeshita, Yus Mizuno, Shoji Itakura, Masaki Tomonaga, Tetsuro Matsuzawa</td>
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<td>Th06</td>
<td>Face and person perception</td>
<td>12:30pm - 2:20pm CANADIAN</td>
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<td>Face processing in infancy: Evidence of sensitivity to second-order relational information</td>
<td>Ramesh Bhatt, Evelin Bertin</td>
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<td>Do 7-month-old infants use the same information as adults to process facial identity?</td>
<td>Kate Humphreys, Frederic Gosselin, Philippe Schyns, Jordy Kaufman, Mark Johnson</td>
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<td>U-shaped development in infants' processing of faces</td>
<td>Cara H. Cashon, Leslie B. Cohen</td>
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<td>The effect of the Thatcher Illusion: What can it tell us about infants developing abilities in configurational face processing?</td>
<td>D. J. Horney, G. Hole, B. Todd</td>
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<td>Modulation of induced Gamma oscillations in face and object perception in human infants</td>
<td>Kelly Snyder</td>
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<td>Infants' ability to discriminate gender using facial features</td>
<td>Lisa Newell, Mark Strauss</td>
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<td>Th07</td>
<td>Social interaction</td>
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<td>Mutual gaze between mother and infant chimpanzeans: The view across cultures</td>
<td>Kim A. Bard, Masako Myowa-Yamakoshi, Josie Quinn, Masako Tomonaga, Tetsuro Matsuzawa</td>
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<td>The effect of maternal unresponsiveness on qualities of smiles in three groups of 6-month-old infants</td>
<td>Samantha L. Batten, Dale M. Stack, Nadine Girouard</td>
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</tbody>
</table>
Th08  Mechanisms of word learning

Learning language from passive listening environments
Rochelle S. Newman, Rebecca J. Ribar

Do words and melodies facilitate infants’ heart rate and looking responses in an object categorization task?
Marie T. Balaban, Sandra R. Waxman

Word learning is ‘smart’: Evidence that conceptual knowledge affects preschoolers’ extension of novel words
Amy E. Booth, Sandra Waxman

Young children’s use of referential cues to learn proper names and count nouns
D. Geoffrey Hall, Julie Bélanger

Mutual exclusivity and taxonomic bias operate simultaneously in preschoolers word learning
Hiraku Ishida, Daisuke Kosugi, Shoji Itakura

Young children’s assumptions about a speaker’s knowledge of words influence their avoidance of lexical overlap
Gil Diesendruck

Word learning in speech and singing contexts
Sandra E. Trehub, Takayuki Nakata, Navneet Dhami

Th09  Emotions and emotional development

Facial actions associated with adult perceptions of increased emotional intensity: Preliminary evidence
Laura H. Bolzani, Daniel S. Messinger, Danielle Sanders, Harriet Oster

Correlates of socially based emotions and behavior in Ugandan orphans
Priscilla Coleman, Ashley Nielsen

Listening and looking: Comparing borderline mothers’ and infants’ vocal and emotional expressions
Gisele Danon, Maya Gratier, Rozenn Graignic, Ouriel Rosenblum, Caroline Heroux, Annick LeNestour

Frozen frenzy: Face-to-face interactions of borderline mothers and their three-month-old infants
Gisele Danon, Ouriel Rosenblum, Rozenn Graignic, Maya Gratier, Caroline Heroux, Isabelle Patouilott, Annick LeNestour

Discrimination of facial expressions in Romanian institutionalized children
Susan W. Parker, Charles A. Nelson

Marital harmony and conflict: Links to infants' physiological and emotional regulation
Chris L. Porter, Melissa Wouden-Miller, Staci Silva

Early temperament of subsequent SIDs victims
Marilyn L. Riese

Toddlers’ vicarious emotional responses and prosocial behaviors: Links with toddlers’ compliance and noncompliance
Tracy L. Spinrad, Cynthia A. Stifter
Th10  Categorization

37  Developmental changes in the effect of linguistic input on infant categorization of spatial relationships
    Marianella Casasola

38  What does a non-human primate understand about self-propelled motion?: Expectancy
    violation experiments with rhesus macaques
    Laurie R. Santos, Jonathan I. Flombaum, Marc D. Hauser

39  Blenders, brushes, and balls: Intense interests in very young children
    Gabrielle Simcock, Suzanne Macari, Judy DeLoache

40  The study of early categorization by chimpanzees (Pan troglodytes) and Japanese macaques
    (Macaca fuscata)
    Chizuko Murai, Masaki Tomonaga, Shoji Itakura

41  The roles of categorical and perceptual similarity in infant colour perception.
    Anna Franklin, Ian Davies

42  Attentional differences toward natural kinds categories by cotton top tamarins (Saguinus
    oedipus)
    Julie J. Neiworth, Richard Parsons, Janice M. Hassett

43  Eye spy a blick: The effect of animacy cues and novel labels on infants’ categorization
    Andrea N. Welder, Susan A. Graham

44  Putting the car before the horse: Feature preferences in sequential touching performance?
    Christine A. Willey, Wallace E. Dixon, Jr.

Th11  Perceptual and motor risk

45  Contrast sensitivity deficits in infants with prenatal and perinatal thyroid hormone insufficiencies
    Giuseppe Mirabella, Adena M. Perron, Carol A. Westall, Kusiel Perlman, Denise Feig,
    Joanne Rovet

46  Relationship between neonatal neurobehavioral outcomes and 6, 12, and 24 month Bayley scales
    scores
    Lynn T. Singer, Robert E. Arendt, Sonia Minnes

47  Developmental characteristics of toddlers with visual impairments
    Mathijs P. J. Vervoord, Jurien Lommer, Annemarie Joosten

Th12  Prenatal and fetal behavior

48  The chronic effects of maternal smoking on fetal behaviour
    Barbara S. Kislevsky, Sylvia M.J. Hains

49  Fetal heart rate variability and learning in the 28-34 week fetus
    Charlene Krueger, Diane Holditch-Davis, Anthony DeCasper, Margarete Sandelowski,
    Michael Belyea, Stephen Quint, Gilbert Gottlieb

50  Fetal cardiac responses to maternal sentences, to play back of these sentences, and to their
    recordings by another woman’s voice
    Jean-Pierre LeCanuet, Severine Manera, Anne-Yvonne Jacquet

51  Fetal discrimination of mother’s and stranger’s voices
    Sheri Schmidt, Ngan Lam, Xie Xing, Hefeng Huang, Ye Hai Hui, Zhang Ke, Wang Zengping,
    Sylvia M.J. Hains

52  Maturation of human fetal cardiac-movement response to airborne sound
    Laura Smith, Darwin Muir, Barbara Kislevsky

53  Methadone maintenance during pregnancy and fetal activity
    Trecia A. Woulde, Alistaire B. Roberts, Jan E. Pryor, Tania Gunn

Th13  Invited Symposium

A tribute to the contributions of Peter W. Jusczyk

Infant word recognition across talker variability
    Derek Houston

Chair: Richard N. Aslin
2:00 pm – 3:50 pm
ONTARIO
The emergence of verb segmentation in infancy  
*Thierry Nazzi*

Prosodic packaging of syntactic units in infants’ speech processing  
*Melanie Soderstrom*

Cross-linguistic implications of studies on infants’ sensitivity to syntax  
*Lynn Santelman*

Discussant: *LouAnn Gerken*

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<tr>
<th>Th14 Debate</th>
<th>Moderator: Susan Goldberg</th>
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<tr>
<td>Attachment theory: Is it relevant universally?</td>
<td>2:00pm - 3:50pm</td>
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<td><em>Everett Waters, Fred Rothbaum</em></td>
<td>CONFEDERATION</td>
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<th>Th15 Symposium</th>
<th>Chair: Virginia Slaughter</th>
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<tr>
<td>Investigating infants’ perception and categorization of the human body</td>
<td>2:00pm - 3:50pm</td>
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<tr>
<td><em>Virginia Slaughter, Michelle Heron, Susan Sim</em></td>
<td>TUDOR</td>
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<tr>
<td>The development of a person-concept in infancy: Evidence from violations of expectations about human point-light displays</td>
<td><em>Derek Moore</em></td>
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<tr>
<td>Infants attend to surface features in identifying goal-directed agents</td>
<td><em>Jose Guajardo, Amanda Woodward</em></td>
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<td>Is the asymmetry in young infants’ categorization of humans versus animals based on head, body, or global gestalt information?</td>
<td><em>Paul Quinn</em></td>
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<td>Discussant: <em>Diane Poulin-Dubois</em></td>
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<th>Th16 Symposium</th>
<th>Chair: Julie Brousseau</th>
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<tr>
<td>Disentangling the relative contributions of genetic and environmental factors in early child development: A singleton-twin study</td>
<td>2:00pm - 3:50pm</td>
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<tr>
<td><em>Mark Zoccolillo, Antonio Ciampi, Sheila Spreng, Daniel Perusse</em></td>
<td>TERRITORIES</td>
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<tr>
<td>Family environment differences between singleton and twin infants in Quebec</td>
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<tr>
<td>Parenting perceptions and behaviors at five months: Evidence from a twin and a singleton study</td>
<td><em>Michel Boivin, N. Leblanc, I. Morin-Ouellet, G. Dionne, V. Sayset, N. Tremblay, M. Zoccolillo, R.E. Tremblay</em></td>
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<tr>
<td>The relationship between infant mental-attentional capacity and SES: A population study</td>
<td><em>Julie Brousseau, Raymond Baillargeon, David Laplante, Hong-Xing Wu</em></td>
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<tr>
<td>Mental-attentional capacity in 5-month-old infants: Evaluating the genetic contribution. The Quebec Newborn Twins Study</td>
<td><em>Raymond Baillargeon, Richard E. Tremblay, Michel Boivin, Daniel Perusse</em></td>
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<tr>
<td>Prevalence and genetic-environmental etiology of externalizing behavior problems in infancy: A singleton-twin study</td>
<td><em>Daniel Perusse, Raymond Baillargeon, Bernard Boulérice, Elisa Romano, Mark Zoccolillo, Michel Boivin, Richard E. Tremblay</em></td>
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<td>Discussant: <em>H. Hill Goldsmith</em></td>
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<tr>
<td>Poster Session</td>
<td>2:30pm - 4:20pm</td>
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<td><strong>Th17</strong> Atypical development</td>
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<td>Predictors of depression in mothers of very preterm infants during infant hospitalization and after discharge.</td>
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<td><strong>Leigh M. Davis, Heather Mohay, Helen Edwards</strong></td>
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<td>The effects of maternal depression on toddlers’ self-assertion between 19 and 26 months of age</td>
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<td><strong>Laura J. Dierz, Kay Donahue Jennings</strong></td>
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<td>Beyond the still-face: A controlled study of 12-month-old infants of mothers with borderline personality disorder</td>
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<td><strong>R. Peter Hobson, Matthew Patrick, Lisa Crandell, Rosa Garcia Perez, Anthony Lee</strong></td>
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<td><strong>Nahit Motavalli Mukaddes, F. Nimet Kaynak, Gulsevim Kinali, Humeyra Besikci, Halim Issever</strong></td>
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<td>Temporal cues of a visual stimulus sequence can produce expectancy and endogenous ERP components by infants 6 months of age</td>
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<td><strong>Yumiko Otsuka, So Kanazawa, Masami K. Yamaguchi</strong></td>
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Th20  Parent-infant interaction and language development
20  The reach of maternal speech to toddlers
   Lauren B. Adamson, Roger Bakeman
21  Do mothers and fathers differ in their book reading styles with their young children?
   Joanna Blake, Silvana Macdonald, Vanessa Agosta, Lisa Bayrami, Andrea Milian
22  Sometimes mothers make their babies cry: Ontogeny of vocal protests in the second half-year
   Xin Chen, Gwen E. Gustafson
23  The influence of contingent maternal responsiveness on production of prelinguistic vocalizations
   Michael H. Goldstein
24  A dyadic approach to the relation between mother-infant vocal contingency and language development: A preliminary report
   Amie Ashley Hane, Stanley Feldstein, Keng-Yen Huang, Brian Morrison
25  Verbal and behavioral measures of responsiveness and directiveness as predictors of children’s language development
   Elise Frank Masur, Valerie Flynn, Doreen L. Eichorst
26  Caregivers contingent comments to 9-month-old infants and subsequent vocabulary comprehension
   Pamela Rosenthal Rollins
27  How maternal actions are adjusted in pretend play contexts
   David C. Witherington, Angeline Lillard

Th21  Spatial processing
28  Spatial estimation from 18 to 36 months: Categorical coding?
   Janette B. Benson, Leah M. Kelly, Amanda B. Brown
29  Six-month-olds can rotate attentional markers: Eye tracking evidence of dynamic spatial indexing.
   Natasha Z. Kirkham, Daniel C. Richardson, Michael J. Spivey, Scott P. Johnson
30  The development of spatial relationships processing in infancy.
   Astri Robinson, Olivier Pascalis

Th22  Emotional regulation
31  Emotion regulation and peer social competence in young preschool children
   Geetha Balaraman, Celia Brownell
32  Maternal predictors of toddlers’ self-regulation
   Susan D. Calkins, Kathryn Amey, Anne Hungerford
33  Maternal positive affect promotes the development of emotion regulation and child competence
   Anne Conway, Susan C. McDonough, Arnold Sameroff
34  Emotion regulation in early infancy: In search of regulatory behaviors
   Martine Gaudreau, Louise Cossette, Isabelle Neault
35  Regulation and reactivity: Relations with maternal stress and parenting
   Ashley L. Hill, Jan Karrass, Julia M. Braungart-Rieker
36  Maternal regulation of early infant reactivity
   Laudan Jahromi, Cynthia A. Stifter
37  Emotion regulation, behavior regulation and language as predictors of skill in responding to joint attention
   Audra Lewis, Tedra Walden, Marygrace Yale, Megan E. Masterson
38  Maternal strategies for regulating emotion and toddler language skills
   Michael Morales, Mathew Broderick, Nicole Brindle, Karen Weierstall, Amy Krutz
39  Behavioral regulation and the transition from infancy to toddlerhood
   Anat Scher, Eleanor Schneider
40  Emotion regulation and attachment in unstructured interactions: Infants and their mothers in emotionally challenging episodes
   Holli A. Tonyan
41  The relation between maternal behavior and later infant self-regulation of emotion
   Crystal N. Wiggins, Cynthia A. Stifter

Th23  Memory retrieval
42  Retrieval protracts retrieval: Six-month-olds exhibit protracted retention after active and passive reminders
   Rachel Barr, Aurora Vieira, Carolyn Rovee-Collier
43 Reactivation duration affects reforgetting in infants  
Jill Grodkiewicz, Amy Joh, Becky Sweeney, Carolyn Rovee-Collier

44 Memory reactivation at 15 and 18 months of age: The paradox of reminder duration  
Vivian Hsu, Rachel Barr, Aurora Vieira, Payal Dixit, Carolyn Rovee-Collier

45 Olfactory context and memory retrieval in 2-month-old infants  
Fiona Radcliffe, Marjorie H. Carroll, Barbara Brennan, Stacey Bromberg, Joyce Prigot,  
Jeffrey W. Fagen

46 Protracting memories via retrieval in 6-month-olds  
Aurora Vieira, Rachel Barr, Carolyn Rovee-Collier

**Th24 Joint attention**

47 Joint attention in late talkers  
Alessandra Assanelli, Laura D’odorico, Nicoletta Salerni, Fabia Franco, Mirco Fasolo

48 The effect of training infant joint visual attention on novel word learning  
Melissa S. Atkins, Katherine Hildebrandt Karraker, Jaclyn G. Carroll, Ashley B. Shafer

49 Joint attention development and its relation to cognitive and language outcomes  
Jessica J. Block, Yuly B. Pomares, Peter Mundy, Amy E. Vaughan, Yania Gomez, A. Rebecca  
Neal, Courtney P. Burnette, Christine E. F. Delgado

50 The eyes have it: What infants know about others’ seeing  
Rechelle Brooks, Jacqueline E. Mullen, Andrew N. Meltzoff

51 The conditional relations of infant joint attention skill and attachment quality to caregiver-child  
shared attention and language  
Mary M. Crowson, Peter C. Mundy

52 Individual differences in temperament, joint attention, and early language  
Jan Karras

53 Toddlers’ use of joint attention with familiar peers, caregivers, and parents and the relation of  
this use to language development  
Joan Test

54 Family language differences and the development of joint attention at 9 and 12 months  
Yania Gomez, Christine Delgado, Peter Mundy, Jessica Block, Amy Vaughan, Yuly Pomares

**Th25 Touch, soothing, and stress**

55 Mother-infant contact in a randomized trial of kangaroo (skin-to-skin) care  
Gene C. Anderson, Sheau-Huey Chiu, Jeffrey Albert, Mary Alice S. Dombrowski

56 Touch for the needy: Effects of infant massage in touch-deprived orphans  
Vonda Jump, Katie Christiansen

57 Reliability of measure of salivary cortisol as an index of stress in newborn infants  
Kiyobumi Kawakami, Kiyoko Takai-Kawakami

58 Prenatal maternal mood is related to maternal-fetal attachment and postnatal infant  
neurobehavior  
Amy Salisbury, Linda LaGasse, Monica Bocanegra, Barry Lester

59 Newborns’ responses to tape-recordings of their own and peers’ distress crying  
Kjell Morten Stormark

60 Effect of maternal perceptions of stress and anxiety during the third trimester of pregnancy on  
neonatal health  
Minhnoi Wroble

**Th26 Keynote Address**

**How children learn the meaning of words**  
Chair: Sandra Waxman  
4:30pm - 5:30pm  
CONCERT HALL FOYER

**Welcoming Reception**

- Complimentary nibbles (courtesy of Lawrence Erlbaum Associates)
- Cash bar
Friday, April 19, 2002

Fr01  Symposium
      New directions in statistical learning

Statistical learning of visual shape sequences and spatial arrangements by 8-month-olds
Richard N. Aslin, József Fiser, Koleen C. McCrink-Gochal

How does a child grow a learning mechanism?
Gary Marcus

Variability and detection of invariant structure
Rebecca L. Gomez

Statistical learning and rule abstraction in infancy
Jonathan A. Stemmer, Natasha Z. Kirkham, Scott P. Johnson

Integrating multiple probabilistic cues: Going beyond distributional statistics
Morten Christiansen

Discussant: Scott P. Johnson

Fr02  Symposium
      How do infants conceptualize self-moving objects?

Causal attribution of animate motion in 7-month-olds
Sabina Pauen, Birgit Träuble

Infants’ association between type of motion onset and object kinds
Rachel Baker, Diane Poulin-Dubois, Valentina Munoz

Does a self-moving box possess an “internal force” and “mind”?
Yuyan Luo, Renee Baillargeon

Following the “gaze” of non-canonical agents in non-canonical orientation
Susan Johnson

Discussant: Alan M. Leslie

Fr03  Invited Symposium
      Affective interaction: A tool for social and cognitive development

Making and breaking human connections: Dyadic expansion of consciousness and moving away from entropy
Edward Tronick

The dialogical self during the first two years of life
Alan Fogel, Ilse de Koeyer, Francesca Bellagamba, Holly Bell

Maternal affect and development of intentional understanding
Maria Legerstee, Tricia Striano

Effects of mother-infant attunement on specific infant abilities across cultures
Marc Bornstein
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<td>Symposium</td>
<td>Joseph J. Campos</td>
<td>9:00am - 10:50am</td>
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<td></td>
<td>The importance of visual proprioception in infancy</td>
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<td>TERRITORIES</td>
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<td></td>
<td>The functional significance of visual proprioception for human development</td>
<td>David I. Anderson</td>
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<td>Peripheral optic flow sensitivity in neonates</td>
<td>François Jouen, Michele Molina</td>
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<td>The contribution of visual proprioception to the emergence of wariness of heights</td>
<td>Joseph J. Campos, David I. Anderson, Kevin A. Davis</td>
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<td>Crawling proficiency and crawling experience as predictors of infants’ postural compensation to peripheral optic flow</td>
<td>David I. Anderson, Joseph J. Campos, Kevin A. Davis</td>
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<td>Discussants: Marianne A. Barbu-Roth, Ichiro Uchiyama</td>
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<td>Fr05</td>
<td>Symposium</td>
<td>Wallace E. Dixon, Jr.</td>
<td>9:00am - 10:50am</td>
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<td>“Talk to the hand because the face ain’t listenin”: Origins, continuities, and implications of distractibility in infancy</td>
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<td>SALON A</td>
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<td>Infant distractibility (or indistractibility) – Is it just eye movement control?</td>
<td>Sharon Hunter</td>
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<td>Distractibility and attention allocation across competitive contexts</td>
<td>Kathleen N. Kannass</td>
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<td>The role of distractibility in novel word learning</td>
<td>Wallace E. Dixon, Jr., P. Hull Smith</td>
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<td>Getting distracted from the main task: Infants and preschoolers watching TV!</td>
<td>John E. Richards</td>
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<td>Discussant: John Colombo</td>
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<td>Fr06</td>
<td>Discussion</td>
<td>Philip D. Zelazo</td>
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<td>Talk with journal editors</td>
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<td>• Marc Bornstein, Parenting: Science and Practice</td>
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<td>• Gavin Bremner, British Journal of Developmental Psychology</td>
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<td>• Leslie Cohen, Infancy</td>
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<td>• James Dannemiller, Developmental Psychology</td>
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<td>• Mark Johnson, Developmental Science</td>
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<td>• Lynn Liben, Child Development</td>
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<td>• Geert Savelsbergh, Infant Behavior and Development</td>
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<td>• Philip D. Zelazo, Journal of Cognitive Development</td>
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<td>Taking risks: Prehension skill under dual conditions of postural support in early standing infants</td>
<td>J. Paul Boudreau, Claes von Hofsten, Gustaf Gredeback, Kerstin Rosander</td>
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<td>Learning to eat with the right hand: A comparative study in France and Côte d’Ivoire</td>
<td>Blandine Bril, Estelle Hombessa-Nkounkou, Daniela Corbetta</td>
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<td>Cognitive effects on the kinematics of infant reaching behavior</td>
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<td>Instability of infants’ hand preferences: Is it linked to lack of arm control or postural achievements?</td>
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<td>Feet reaching: The interaction of experience and ability</td>
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<td>Object representation and predictive reaching: Evidence for continuity from infants and adults</td>
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<td>Visually guided reaching in 15-month-old infants</td>
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<td>A dynamic field model of complex manual behaviors</td>
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<td>Maternal core beliefs and infant feeding difficulties</td>
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<td>Maternal problem solving in the context of infant food refusal.</td>
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<td>Solihull Approach: Psychotherapeutic and behavioural approach for sleeping, feeding, toileting, behavioural difficulties</td>
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<td>Differences in temperament perception according to the timing of feeding problems in the first year of life</td>
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<td>Feeding proficiency in preterm neonates following hydrotherapy in the NICU setting</td>
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<td>Visual-proproprioceptive intermodal perception with degraded featural and contingency information</td>
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<td>Intersensory perception in infancy: Response to competing amodal &amp; modality-specific attributes</td>
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<td>A study of intermodal perception using delayed display</td>
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<td>Intermodal processing and the development of imitation in infancy</td>
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<td>How prior tactile exposure can influence visual reasoning</td>
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<td>Infants’ learning, memory, and generalization-of-learning for bimodal events</td>
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<td>Infant-directed speech produces differential activation of cortical areas in 8-month-old infants</td>
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<td>Neural network categorization of infant-directed and adult-directed emotional speech</td>
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<td>Maternal speech to infants in Mandarin Chinese: Lexical tone is exaggerated in infant-directed speech in a tonal language</td>
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<td>Problem solving</td>
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<td>Fr14</td>
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Infant socioemotional and cognitive development: Links to maternal caregiving types
Laurie A. Van Egeren, Marguerite S. Barratt, Mary A. Roach

**Fr15** Temperament

49 Does difficult temperament moderate the link between negative maternal mood and parenting efficacy?
Feyza Corapci, Theodore D. Wachs

50 Understanding toddler temperament: Associations among temperament, maternal, and child characteristics
Marissa Diener, Annette Bradshaw

51 Infant behavior questionnaire-revised: New evidence in support of reliability and validity
Maria A. Garstein, Samuel P. Putnam, Laura Becken Jones, Mary K. Rothbart

52 Early infant temperament as an independent predictor of internalizing and externalizing tendencies at age 2
Ellen Leen, Esther Leerkes, Susan Crockenberg

53 Toddler peer interaction: Associations with temperament and emotion socialization
Amy Mariaskin, Celia A. Brownell

54 Socialization of temperamental anger
Cindy P. Polak, Heather A. Henderson, Nathan A. Fox

55 The Early Childhood Behavior Questionnaire: Development, psychometrics, factor structure, and relations with behavior problems
Samuel P. Putnam, Laura B. Jones, Mary K. Rothbart

**Fr16** Caregiving and abuse

56 Parental involvement in early intervention services as predicated by family resources and parental locus of control
Margo A. Candelaria

57 Infant child abuse: Variables in the decision to report suspicion
Connie S. Goldfarb

58 Becoming a family: Parental involvement and its implications for family and infant development
Karissa Greving, Bridget Gaertner, Tracy Spinrad

59 The nature of play among mother-toddler dyads in early head start
Ronit Kahana-Kalman, Elisa Vele

60 Caring for infants in child care: Caregivers’ reflections on their first year in infant group care
Susan L. Recchia, Eleni Lotzou

61 Sexual abuse during childhood and parenting among mothers of infants: Modeling direct and indirect pathways
Pamela Schuetze, Rina Das Eiden

62 Predicting child-teacher attachment relationships in child care
Eva Marie Shivers, Carollee Howes

63 The quality of caregiving interactions experienced by infants and toddlers in group child care
Dale Walker, Deborah L. Linebarger, Kathryn M. Bigelow, Cathleen J. Small, Sanna Harjusola-Webb, Daniela Rodrigues, Christa Anderson

**Fr17** Debate

Can babies really do math?
Moderator: Yuko Munakata
Karen Wynn, Leslie Cohen

**Fr18** Symposium

Studies of early language acquisition in atypical populations

Assessing speech perception and language abilities of deaf infants before and following cochlear implantation
Derek M. Houston, David B. Pisoni, Karen Iler Kirk, Elizabeth A. Ying, Richard T. Miyamoto
Causes of lexical acquisition delay in infants with Williams syndrome: Word segmentation and object categorization

*Thierry Nazzi, Annette Karmiloff-Smith*

Early word learning in infants and toddlers with Williams syndrome and Down’s syndrome

*Sarath Paterson, Thierry Nazzi, Elena Longhi, Sandra Ewing, Annette Karmiloff-Smith*

Holoprosencephaly: Assessing language, cognition, and perceptual processing in children with severe brain insult

*April A. Benasich, Judy F. Flax, Cindy Roessler, Naseem Choudhury, Hongkui Jing, Hilary J. Levers*

Discussants: Annette Karmiloff-Smith, Roberta Michnick Golinkoff

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<th>Progress in the developmental approach to infant colic</th>
<th>Chair: Ian St. James-Roberts</th>
<th>11:00am - 12:50pm</th>
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<td>Systematic review of variations of cry/fuss amounts across countries: Do universal criteria for colic make sense?</td>
<td>Marissa Alvarez, Dieter Wolke</td>
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<td>Progress in the developmental approach to infant colic: Sleep and infant colic</td>
<td><em>Turkka Kirjavainen, Liisa Lehtonen, Pentti Kero</em></td>
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<td>Negative (crying), positive (smiling) and motor limb responsivity on Kagan-type tasks in infants with and without colic</td>
<td>Ronald Barr, Jodi A. Paterson, Lisa M. MacMartin, Liisa Lehtonen, Nicole Calinoiu, Lea Wertheim, Simon N. Young</td>
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<td>What Sorts Of Stimulation Trigger Crying In Reactive Babies?</td>
<td>Ian St James-Roberts</td>
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<td><em>Michelle de Haan</em></td>
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<td>Neurophysiological correlates of habituation and novelty preferences in human infants</td>
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<td>Novelty detection: A measure of explicit memory?</td>
<td><em>Harlene Hayne, Jenny Richmond</em></td>
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<td>Residential status of biological and social fathers: Impact on father-toddler interaction</td>
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Observational data on father play with infants: Challenging to get but valuable to have  

Father involvement in early Head Start programs: Methodological challenges and lessons from mature programs  
Helen Raikes, Wolmoet van Kammen, Kim Boller, John Love

Discussants: Hiram E. Fitzgerald, Natasha Cabrera

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| 2 Presentation patterns, side biases, and novelty preferences during a visual perception task  
_Donna Fisher-Thompson, Dawn Romagnola, Kelly Marolf, Julie Petiapiece, Kari Moorhead_ |
| 3 Infant behaviors scored using a new general purpose video coding system  
_Anjanie McCarthy, Marc Baron, Jamie Wheatley, Larry Symons, Christine Hains, Kang Lee, Darwin Muir_ |
| 4 Effects of D4 dopamine receptor gene and serotonin transporter promoter region polymorphisms on infants' response to novelty  
_Kristína Lakatos, Emma Birkas, Zsofia Nemoda, Zsolt Ronai, Ildiko Toth, Krisztina Ney, Maria Sasvari-Szekely, Judit Gervai_ |
| 5 Visual habituation at 5 months: Short-term reliability of measures obtained with a new polynomial regression criterion.  
_Chandale Lavoie, Stéphan Desrochers_ |
| 6 A dynamic field model of infant visual habituation  
_Esther Thelen, Gregor Schoener_ |

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| 7 Associations between temperament and cognitive processing during infancy  
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| 8 The assessment of temperament in five-month twins: What are we measuring?  
_Caroline Brunelle, Etienne Dubreuil, Adèle Rochon, Robert Pihl, Richard Tremblay, Daniel Perusse, Michel Boivin_ |
| 9 Scaling reactivity, explaining regulation: Temperament, infant regulatory behaviors, and dyadic interaction  
_Jennifer D. Clark, Yasuo Miyazaki, Arnold Sameroff_ |
| 10 The effect of infant temperament on mothers' response to infant crying  
_Wilberta Donovan, Lewis Leavitt_ |
| 11 Maternal perception of her infant as mediated by depression, maternal childhood, and social support  
_Barbara A. McFall, Blanca X. Zeas, Nancy Aaron Jones_ |
| 12 Newborn behavior and temperament  
_J. Kevin Nugent, Jerome Kagan, Nancy Snidman, Jennifer T. Lisse, I. Simona Bujoreanu_ |
| 13 Measuring infant stress: The IRSS and infant visual behaviors  
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| 14 Memory for music in infancy: The role of style and complexity  
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| 15 A study on infants' listening response to children's songs by the use of the headturn preference procedure  
_Hiromi Nito, Akiko Hayashi, Yoko Minami_ |
| 16 Effects of auditory stimulation in low and high light conditions on behavioral organization in preterm infants  
_Pia Strunk, Robert Lickliter, Jonathan Roberts, Gretchen Godfrey, Lindsey Litwiller_ |
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40  The relationship between attachment security, affect sharing, and joint attention in 14- to 17-month olds
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41  Socioemotional functioning at 24 and 36 months: Relations to maternal sensitivity and attachment security
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42  Depressive symptoms, marital quality, and attachment: The mediating role of synchrony in father- and mother-infant interactions
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43  Parenting stress, infant temperament, and parent-infant attachment security
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44  The pathway to problem behavior: Does attachment security mediate the influence of temperament?
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45  Infants' attachments to fathers and mothers: The roles of sensitivity and child gender
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49  Postpartum depression, adolescent mothering, and infant socioemotional development
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50  Language development in infants with craniofacial anomalies: Group differences and relations to maternal psychological adjustment
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51  Prenatal maternal mood disturbance and alcohol use as predictors of behavioral and physical health outcomes in young children
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52  Hypothalamic-pituitary-adrenal (HPA)-axis functioning in mothers with childhood violent trauma history
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53  Infant fussiness and maternal psychosocial well-being
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54  Infants of mothers with panic disorder: Salivary cortisol levels and sleep disturbances
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55  The developmental course of infant attention and toddler cognitive and language outcomes
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56  Predicting IQ and language abilities at 32 months from static and sequentially presented visual stimuli at 4 months
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57  Effects of prenatal maternal stress on infant cognitive and linguistic development
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58  Factors contributing to changes in cognitive functioning in a high and low risk sample of infants
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<td>Mary L. Schneider, Colleen Moore, Andrew D. Roberts, Onafre T. DeJesus</td>
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<td>Newborn infants exposed to maternal psychiatric illness during pregnancy have diminished HR responses to downward tilting</td>
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<td>Catherine Monk, William Fifer, Michael Myers, Richard Sloan</td>
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<td>Antenatal maternal anxiety is linked with non-right handedness in the child</td>
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<td>Vivette Glover, Thomas G. O'Connor, Jean Golding</td>
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<td>Prevention of adolescent criminal behavior and intellectual impairment among children exposed to tobacco during pregnancy.</td>
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<td>David Olds, Charles R. Henderson, Jr.</td>
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<td>Neural network categorization of EEG measurements of infant emotional states</td>
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<td>5.5-month-old infants ascribe goal-directedness to self-moving objects’ actions</td>
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16 Representation of the matching concept during infancy and early childhood
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17 Age-related changes in visual recognition memory from infancy through early childhood
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18 The development of visual short-term memory over the first year of life
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19 Does additional familiarization enhance maternal voice recognition in two-day old infants?
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20 Natural feeding enhances human neonatal memory for spoken words
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31 Is that a face? The role of visual experience during infancy in the development of face detection
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32 Infant preferences for feminine male faces: Early detection of parental investment?
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33 Processing speed and face recognition
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34 Constructing the prototype face in human and Japanese macaque infants
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*Sheri P. Eisengart, Lynn T. Singer, Sarah Fulton, Jill Baley,*  
*Diane Holditch-Davis, Mark Scher, Todd Schwartz*

37 Impact of preterm birth on mother-infant interaction: A cross-situational analysis  
*Anna Kovács, Patricia Medgyesi, Ilidók Tóth, Marianna Zsuppányi, Judit Gervai, Magda Kalmár*

38 Comparison of feeding behaviors in Israeli and American preterm infants  
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39 A longitudinal study of depressive symptoms in mothers of prematurely-born-infants  
*Margaret S. Miles, Diane Holditch-Davis, Mark Scher, Todd Schwartz*

40 Effect of holding on cortisol levels of mothers and their preterm infants in the neonatal intensive care nursery  
*Madalynn Neu, Mark Laudenslager*

41 Cardiac and behavioral responses to stressful events in premature infants  

42 Psychosocial and medical factors associated with developmental outcome in very low birthweight toddlers  
*Phyllis Zelkowitz, Apostolos Papageorgiou, Claudette Bardin*

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44 Sensory experiences in the pharynx during infancy  
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46 Infant speech perception is sensitive to statistical properties of the input  
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47 The ability of 4-month-olds to discriminate changes in vocal information within multimodal displays  
*Jason McCartney, Robin Cooper*

48 The audiovisual speech perception of consonants in infants  
*Ryoko Mugitani, Masahiro Hirai, Sotaro Shimada, Kazuo Hiraki*

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**Fr45** Cigarettes, cocaine, and other drug exposure

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50 Prenatal cocaine exposure: Analysis of direct and indirect effects on 36-month developmental outcome  
*Fonda Davis Eyler, Marylou Behnke, Cynthia Wilson Garvan, Kathleen Wobie, Weir Hou*

51 Infant sleep and arousal following prenatal alcohol exposure  
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52 Effects of maternal smoking during pregnancy on neurobehavioral status of Japanese newborn infants  
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53 Longitudinal assessment of language in children with prenatal cocaine exposure: Birth to 5 years  
*Lemmieta G. McNeilly, Fonda Davis Eyler, Marylou Behnke, Cynthia Garvan*

54 The relationship of prenatal cocaine and polydrug exposure to infant behavioral regulation  
*Sonia Minnes, Lynn Singer, Robert Arendt*

55 Social play between 18-month-old toddlers and their cocaine-and-other-drug-using mothers  
*Adriana Molitor, Anna Ward, Linda C. Mayes*

56 Relationship of the Fagan test of infant intelligence to later cognitive functioning in drug-exposed children  
*Krestin J. Radonovich, Margaret B. Pulsifer, Megan O'Reilly, Arlene Butz*
Effects of maternal and environmental cigarette-exposure during pregnancy on rhythms in neonatal heart rate variability
Laura E. Stephens, Philip S. Zeskind, Catherine H. O'Grady

Poster Workshop
Revealing variability in infant development:
Perceptual-motor, cognitive, linguistic, and physiological perspectives
Chair: Martha E. Arterberry
1:30pm - 3:20pm
CANADIAN

Functional variability and selection in perceptual-motor development
Geert Savelbergh, Karl S. Rosengren, John van der Kamp

Development of cortisol circadian rhythm in infancy variability
Carolina de Weerth, Robbert H. Zijl, Jan K. Buitelaar

Variability and its sources in infant categorization
Martha E. Arterberry, Marc H. Bornstein

Analyzing intra-individual variability in developmental data
Paul van Geert, Marijn van Dijk

A micro-genetic study of infants’ categorization
Ann E. Ellis, Lisa M. Oakes

Discussant: Karl S. Rosengren

ICIS awards and business meeting
The 2002 ISIS Dissertation Award and Young Investigator’s Award
3:30pm - 4:30pm
CONCERT HALL

Presidential Symposium
Hanuš Papoušek through his colleagues’ eyes
Chair: Arnold Sameroff
4:30pm - 6:20pm
CONCERT HALL

Hanuš Papoušek: Pioneer in infant learning
Lewis P. Lipsitt

Parenting and family life: Personal and professional views of Hanuš Papoušek
Marc H. Bornstein

An evolutionary basis for intuitive parenting
Stephen Suomi

Presidential Reception
CONCERT HALL FOYER
6:30pm – 7:30pm
- Complimentary canapés
  (courtesy of Johnson & Johnson Pediatric Institute)
- Cash bar
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<td><strong>Symposium</strong>&lt;br&gt;Manipulating the contents of infants’ representations</td>
<td>Chair: Renee Baillargeon&lt;br&gt;9:00am - 10:50am&lt;br&gt;ONTARIO&lt;br&gt;&lt;br&gt;Primbing infants to attend to height information in a physical reasoning task&lt;br&gt;<em>Su-hua Wang, Renee Baillargeon</em>&lt;br&gt;&lt;br&gt;Facilitating infants’ reasoning about means-end support and search problems&lt;br&gt;<em>Karen R. Menard, Andrea Aguiar</em>&lt;br&gt;&lt;br&gt;Enabling infants’ object segregation using contextual cues&lt;br&gt;<em>Gwenden Dueker, Amy Needham</em>&lt;br&gt;&lt;br&gt;Altering infants’ sensitivity to color features in an individuation task&lt;br&gt;<em>Teresa Wilcox, Catherine Chapa</em>&lt;br&gt;&lt;br&gt;Discussant: Dare Baldwin</td>
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<td><strong>Symposium</strong>&lt;br&gt;Ontogeny of eye gaze processing Part I: Early sensitivity and evolutionary roots</td>
<td>Chairs: Kang Lee, Darwin Muir&lt;br&gt;9:00am - 10:50am&lt;br&gt;CONFEDERATION&lt;br&gt;&lt;br&gt;An evolutionary perspective on gaze following and understanding.&lt;br&gt;<em>Michael Tomasello, Josep Call</em>&lt;br&gt;&lt;br&gt;Energy exchange, eye contact, and expectancies in the ontogeny of face preference: A biological perspective&lt;br&gt;<em>Elliott M. Blass, Carole Ann Camp</em>&lt;br&gt;&lt;br&gt;Attentional control by gaze cues&lt;br&gt;<em>Chris Moore</em>&lt;br&gt;&lt;br&gt;Invisible gaze following: Perspective taking at 12 months of age&lt;br&gt;<em>Darwin Muir, Kang Lee</em>&lt;br&gt;&lt;br&gt;Discussant: Darwin Muir</td>
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<td><strong>Symposium</strong>&lt;br&gt;Biosocial rhythms in development</td>
<td>Chair: Ronald Barr&lt;br&gt;9:00am - 10:50am&lt;br&gt;TERRITORIES&lt;br&gt;&lt;br&gt;Chronicity in cortisol regulation and reactivity&lt;br&gt;<em>Michael Lewis</em>&lt;br&gt;&lt;br&gt;Disturbed daytime cortisol rhythms may reflect adverse factors in the young child’s environment&lt;br&gt;<em>Megan R. Gunnar, Elizabeth E. Gilles</em>&lt;br&gt;&lt;br&gt;Differential early attachment experiences, HPA axis circadian rhythmicity, and biobehavioral development in rhesus monkeys&lt;br&gt;<em>Stephen J. Suomi</em>&lt;br&gt;&lt;br&gt;Investigating longitudinal trends in correlations between maltreated foster children’s behavior and L-HPA axis activity&lt;br&gt;<em>Philip A. Fisher, Michael Stoolmiller</em>&lt;br&gt;&lt;br&gt;Discussant: Ronald Barr</td>
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Symposium
Determinants and consequences of attachment disorganization in infancy

Genetic risk for attachment disorganization in infancy: The role of the D4 dopamine receptor (DRD4)
Judit Gervai, Krisztna Lakatos, Ildiko Toth, Krisztna Ney, Zsofia Nemoda, Zsolt Ronai, Maria Sasvari-Szekely

Attachment disorganization in infancy: Individual and social determinants and consequences for behavioral regulation
Gottfried Spangler, Michael Schieche

Maternal over-involvement predicts attachment disorganization among toddlers with a congenital anomaly
Douglas Barnett, Christine Butler, Melissa Kaplan-Estrin, Melissa Clements

Disorganized attachment, frightening maternal behavior, and behavior problems: A follow-up investigation
Carlo Schuengel, M.J. Bakermans-Kranenburg, M.H. Van IJzendoorn

Discussant: Judith Solomon

Poster Session

Sa05 Temperament: Cross-cultural and cross-species
1. The impact of neonatal stress and enrichment on emotional reactions and attention in infant chimpanzees (Pan troglodytes)
   Kim A. Bard
   Vicka Filanosky, Maria A. Gartstein, Yana Peleg, Helena Slobodskaya
3. Cross-cultural differences in temperament in the first year of life: U.S. and Russia
   Maria A. Gartstein, Helena R. Slobodskaya, Irina A. Kinsht, Vicka Filanosky, Yana Peleg
4. Infant temperament and the impact of immigration: Russia, United States of America, and Israel
   Yana Peleg, Maria A. Gartstein, Vicka Filanosky, Helena R. Slobodskaya
5. Temperament, parent-child interactions, and infant mental abilities: An information processing approach
   Erri Hewitt, Joan Bihun, Kathleen Duffy, H. Hill Goldsmith
6. Difficult and unadaptable temperament: Evidence for interactive genetic processes
   Kathryn S. Lemery, H. Hill Goldsmith
7. Parents' perceptions of infant temperament: Commonalities and differences in China, the U.S., and Spain
   Carmen Gonzalez, Maria A. Gartstein, Stephan Ahadi, Jose A. Carranza, Mary K. Rothbart, Suh Wen Yang

Sa06 Auditory and speech perception
8. Name recognition and speech segmentation
   Heather Borfeld, Karen Rathbun, Roberta Golinoff, James Morgan, Jennifer Sootsman
9. Visual stimulation affects infant attention to rate of infant-directed speech
   Jamie S. Cooper, Wendy L. Ostroff, Robin Panneton Cooper
10. Developmental change in infants' preferences for prosodic continuance in Japanese speech
    Akiko Hayashi, Reiko Mazuka
11. Differential biases in infants' gaze during speech and music
    Gerald W. McRoberts, Laura Lakusta, Colleen McDonough, Amy McKee
12. Effect of a distracting noise on infant syllable discrimination
    Susan Rvachew, Linda Polka, Lindsay Heggie
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<td>Comparison of global and specific perinatal risk measures in predicting outcome in a biologically at-risk sample at six months</td>
<td>Nancy J. Cohen, Mirella Pugliese, Mirek Lojkasek, Susan Abbey</td>
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<td>Longitudinal and concurrent correlates of father-infant and mother-infant attachment stability in a high risk sample</td>
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<td>Determinants of maternal sensitivity in high- and low-risk mothers: A longitudinal study</td>
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<td>Joe Hankin, George Hollich, Peter Jusczyk, Amanda Seidl</td>
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<td>Attention and the comprehension of subject and object wh-questions</td>
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### Sa10  Number and numerical processing

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Bridging the gap between unresolved states of mind and disorganized attachment relationships: Links to atypical maternal behavior |
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**Connectionist approaches to infant cognitive development** |
|         |                                                                     | **Modeling age differences in category learning**  
**Thomas R. Shultz, Leslie B. Cohen** |
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**Yuko Munakata** |
|         |                                                                     | **A connectionist process model of infant habituation**  
**Sylvain Strois, Denis Mareschal** |
|         |                                                                     | **Modeling the development of infant causal perception**  
**Leslie B. Cohen, Harold H. Chaput** |
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| Sa14    | Symposium                                                             | **Chair: Amy Needham**  
**Perceptual organization in infancy: Bottom-up and top-down processes** |
|         |                                                                     | **Early object perception is a bottom-up, not a top-down, process**  
**Scott P. Johnson** |
|         |                                                                     | **Similarity and perceptual organization in infancy**  
**Ramesh S. Bhatt, Paul C. Quinn, Evelin Bertin** |
|         |                                                                     | **Memories of objects influence infants object segregation**  
**Amy Needham, Gwenden L. Dueker, Avani C. Modi** |
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**Robert L. Goldstone** |
|         |                                                                     | **Discussant: Paul C. Quinn** |
### Symposium
**Infants’ understanding of others: New research directions**

**Chairs:** Diane Poulin-Dubois
Renee Baillargeon

11:00am - 12:50pm
TUDOR

- Imitative learning and emulation in human infants
  Gyorgy Gergely

- Implicit understanding of the seeing-knowing relation in 14- to 24-month-old infants
  Beate Sodian, Diane Poulin-Dubois, Joanne Tilden, Ulrike Metz, Barbara Schoepner

- Links between absent reference comprehension and the understanding of intentions
  Megan Saylor

- 15-month-old infants’ understanding of false belief
  Kristine H Onishi, Renee Baillargeon

**Discussant:** Amanda Woodward

---

### Symposium
**The evolution and impact of depression across development**

**Chair:** Nancy Aaron Jones

11:00am - 12:50pm
TERRITORIES

- Delayed reactive cries and emotional differentiation signifies uncertain empathic development for newborns of depressed mothers
  Nancy Aaron Jones, Barbara A. McFall, Blanca X. Zeas

- Mother-infant regulation: Maternal depression, infant gender and attachment

- Does pitch of voice matter? Maternal vocal expression of surprise and infant emotional reaction
  Nadja Reissland

- Changes in maternal depression and quality of attachment: Sex differences
  Michael Lewis

- Gender differences in emotion regulation and the path to mood and anxiety disorders in women
  Pamela M. Cole, Carolyn Zahn-Waxler, Tara Chaplin

**Discussant:** Carolyn Saarni

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### Symposium
**The MacArthur Bucharest Early Intervention Project**

**Chair:** Charles A. Nelson

11:00am - 12:50pm
SALON A

- The Bucharest Early Intervention Project: Electrophysiological correlates of face and emotion recognition
  Susan W. Parker, Charles A. Nelson

- Development of the EEG in institutionalized infants and young children in Romania
  Nathan A. Fox, Peter J. Marshall

- Effects of caregiving environment on the behavior of institutionalized, formerly institutionalized, and community children
  Anna T. Smyke, Charles H. Zeanah, Sebastian F.M. Koga

**Discussant:** Megan R. Gunnar
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**Sa18 Vision and gaze direction**

1. Look both ways! Fourteen-month-old infants' saccadic responses to peripheral targets following nonpredictive gaze cues  
   *Amy Carr, Chris Moore*

2. Lightness constancy in 4-month-old infants  
   *Sarina H.L. Chien*

3. Neural correlates of perceiving gaze direction in 4-month-old infants  
   *Gergely Csibra, Agnes Volein, Leslie A. Tucker, Teresa Farroni, Mark H. Johnson*

4. Gaze direction as an attentional cue in newborns  
   *Teresa Farroni, Donatella Pividori, Francesca Simion, Stefano Massaccesi, Mark H. Johnson*

5. Motion and mutual gaze in directing infants' spatial attention  
   *Teresa Farroni, Mark H. Johnson, Eileen Mansfield, Carlo Lai, Francesca Simion*

6. Functional imaging of visual cortex of awake infants using optical topography  
   *Gentaro Taga, Kayo Asakawa, Atushi Maki, Yukuo Konishi, Hideaki Koizumi*

7. The dynamics of infant visual foraging  
   *Steven S. Robertson, John Guckenheimer, Amy M. Masnick, Leigh F. Bacher*

8. Maternal DHA status during late pregnancy is related to measures of infant look duration and acuity at age 4 months  
   *Peter Williams, Stewart Forsyth, Gary Mires, Peter Ross*

**Sa19 Family processes and general Issues**

9. Neonatal nurses and end of life care for families of critically ill and dying newborns  
   *Regina M. Curson, Arthur J. Engler, Susan Ludington*

10. Kangaroo care practices, knowledge, barriers and perceptions: A national survey  
    *Regina M. Curson, Arthur J. Engler, Susan Ludington*

11. Insights on the rise of the PDD diagnosis in an inner city pediatric population  
    *Mary J. Hoberman, Tal Reis, Molly Nozyce, Alexandra Gordon*

12. Intellectual development in children affected by HIV illness  
    *Patricia Lester, Mary J. Ward, Mary Jane Rotheram-Borus, Melissa B. Ildari, Juwon Song, Mindy Finklestein, Marian Sigman*

13. Identifying atypical attachment patterns through infants' reactions to friendly strangers in clinical and non-clinical samples  
    *Mirek Lojkasek, Nancy J. Cohen*

14. NICU lighting revisited: A review of research utilization  
    *Marilyn J. Lotus, Elizabeth Seal*

15. Family support for families of NICU children: Which aspects of need are reduced as a result of a developmental intervention?  
    *Sandra Cluett Redden, Michelle Einson, Jane Barlow*

16. The emotional relationship between mothers and their aggressive young children: An observation of mother-child interaction  
    *Karen Tsuk, Sarah Landy*

17. DSM-IV diagnoses for infants and toddlers seen in an infant mental health clinic and community mental health centers  
    *Harry H. Wright, Rosetta H. Penny, Michael L. Cuccaro, Tami V. Leonhardt*

18. Pretend play in preschoolers: Associations with family & child-care experiences  
    *Stephanie Zervas, Celia Brownell*

**Sa20 Speech and sign perception**

19. Cry sounds, vocalizations, and grunts combine to create a prelinguistic sound-meaning system  
    *Gwen E. Gustafson, James A. Green*

20. Infant perception of American Sign Language and non-linguistic biological motion  
    *Ursula C. Hildebrandt, David P. Corina*

21. The developmental course of vowel differentiation in a sample of young Japanese infants  
    *Patricia A. Osborne*
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<td>The role of object familiarity on infants’ search performance in an A-not-B task</td>
<td>Thomas Keenan</td>
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<td>A not B errors: Do infants know the object is at B?</td>
<td>Ted Ruffman</td>
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<td>37</td>
<td>Reasoning about height relations in a containment task: A developmental trend in perseverative responding.</td>
<td>Julianne Scott, Andrea Aguiar</td>
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<td>38</td>
<td>Mastering the art of in-action: Developments in inhibitory control</td>
<td>Sandra A. Wiebe, Angela F. Lukowski, Patricia J. Bauer</td>
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<td>39</td>
<td>Joint attention</td>
<td>Joint visual attention at 12 months: Is the intentional stance implied?</td>
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<td>Yurisa Barillas, Maria Legerstee</td>
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<td>40</td>
<td>Joint play and cooperative problem-solving in toddlers: Relations between social skill and social understanding</td>
<td>Celia A. Brownell, Geetha Balaraman, Amy Mariaskin, Kristy Perseo, Stephanie Zerwas</td>
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<td>41</td>
<td>Infant gaze and maternal nonverbal behaviours during triadic play with toys at 5 and 12 months</td>
<td>Elka Leiba, Dale M. Stack</td>
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<td>42</td>
<td>The process of developmental change in joint attention behavior: Using the longitudinal and retrospective survey</td>
<td>Hidehiro Ohgami, Shoji Itakura</td>
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<td>43</td>
<td>A preliminary study on relationship between mother-infant interaction and joint attention in Japan: A sequential view</td>
<td>Taeko Teramoto, Taiko Hirose, Takahide Omori, Kumi Mikuni, Katsue Tanaka</td>
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44  Joint attention and maternal behavior during mother-infant play  
*Rumiko Yamano, Hidehiro Ohgami*
45  Temperament and infant joint attention  
*Amy Vaughan, Jessica Block, Yania Gomez, Yuly Pomares, Peter Mundy*

### Emotional development

46  Observing emotion in infants: Facial expression, body behavior, and rater judgements of responses to an impossible event  
*Linda A. Camras, Harriet Oster, Joseph Campos*
47  Differential sucking responses to emotional speech patterns in newborn infants  
*Diane Mastropieri, William P. Fifer, Sabrina Huda, Elizabeth R. D. Leeds, Krista Anderson*
48  Development of spontaneous smiling in infant chimpanzees (Pan troglodytes)  
*Yuu Mizuno, Hideko Takeshita, Rieko Takaya, Yukuo Konishi, Gentaro Taga, Shoji Itakura, Masaki Tonomaga, Tetsuro Matsuzawa*
49  Learning emotion at home: Young infants’ generalization of parental emotional expressions  
*Arlene S. Walker-Andrews, William Pagan*
50  Individual differences in the communication of infant distress  
*Rebecca M. Wood, Gwen E. Gustafson, Kerry M. O’Connor, Jessica K. Verhoosky*
51  Infant affect regulation during mother-infant interaction following maternal still face  
*Hui-Chin Hsu*

### Environmental context

52  Can a child problem-focused intervention reduce mother’s stress and increase her sensitivity?  
*Monica Östberg, Berit Hagekull*
53  The reliability of the dyadic adjustment questionnaire: An examination of marital quality over an infant’s first year of life  
*Jonae Smith, Brian Morrison, Keng-Yen Huang, Amie Ashley Hane, Stanley Feldstein*
54  Nutritional predictors of developmental outcomes  
*John Worobey, Joan Pisuk*

### Poster Workshop

**The still-face procedure: Historical perspectives, current trends, and future directions**

55  The still-face: A history of an experimental effect  
*Lauren Adamson, Janet Frick*
56  Infants have stable social-emotional and coping behaviors in the face-to-face still-face paradigm  
*Ed Tronick, M. Katherine Weinberg, K. Olson*
57  Preschoolers’ reaction to their still-faced mother  
*M. Katherine Weinberg*
58  Infant interactions with a virtual adult: The still-face effect and other perturbation effects  
*Darwin Maier, Christine Hains, Sylvia Hains, Elspeth Evans*
59  Infants’ still-face responses and later abilities to delay gratification  
*Julia M. Braungart-Rieker*
60  Three experimental variations on the still-face procedure and analyses  
*Lynne Sanford Koester, Teresa Kamman, Meg Ann Traci, Linda Thomas*
61  Expectancies for contingency across clinical and typical populations of children  
*Jacqueline Nadel, Tiffany Field, Maria Perez*
62  Developmental significance of the behaviour of mothers of infants with down syndrome in the ‘still-face’  
*John Oates, Derek Moore, Julia Goodwin, Peter Hobson*

*Discusant: Edward Tronick*

### Debate

**The pros and cons of cochlear implants**

*Chair: Janet Frick*

1:00pm - 2:50pm

*Operator: Kathy Hirsh-Pasek*
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<th>Sa28</th>
<th>Symposium</th>
<th>Infant categorization of spatial relationships: Developmental changes and relation to language-specific semantic categories</th>
<th>Chair: Marianella Casasola</th>
<th>1:00pm - 2:50pm</th>
<th>CONFEDERATION</th>
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<td>Development of an abstract category representation for the spatial relation between in 6- to 10-month-old infants</td>
<td>Paul C. Quinn</td>
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<td>Spatial semantics and cognition in infancy and adulthood: A crosslinguistic study of English and Korean</td>
<td>Soonja Choi</td>
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<td>Infant categorization of containment, support, and tight-fit spatial relationships</td>
<td>Marianella Casasola</td>
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<td>Discussants: Melissa Bowerman, Leslie B. Cohen</td>
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<td>Sa29</td>
<td>Symposium</td>
<td>Processes of stability and change in the first year of life</td>
<td>Chairs: Andréa P.F. Pantoja, Maria C.D.P. Lyra</td>
<td>1:00pm - 2:50pm</td>
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<td>The quality of attractor states in early communication system</td>
<td>Maria C.D.P. Lyra</td>
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<td>Changing dynamics in early emotional development</td>
<td>Andréa P.F. Pantoja</td>
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<td>Stability and instability in early mother-object-infant communication</td>
<td>Micheline de Souza e Silva</td>
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<td>Development of the self between 7 and 10 months</td>
<td>Ilse de Koeyer, Alan Fogel</td>
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<td>Discussant: Daniel Messinger</td>
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<td>Sa30</td>
<td>Symposium</td>
<td>How tools expand the potential for action: Hands, handles and handrails</td>
<td>Chair: Karen E. Adolph</td>
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<td>Effects of tool use in early infancy</td>
<td>Amy Needham, Tracy Barrett</td>
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<td>Infants’ handrail use as a tool for balance control</td>
<td>Sarah Berger, Karen E. Adolph</td>
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<td>Beyond the information given: Extensions of activities learned through imitation</td>
<td>Emily Bushnell, Jason Sidman</td>
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<td>The planning of action in young children’s tool use</td>
<td>Ad W. Smitsman, Ralf Cox</td>
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<td>Discussant: Jeffrey J. Lockman</td>
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<td>Sa31</td>
<td>Discussion Session</td>
<td>Teaching infant researchers how to research infants: Institutionalizing undergraduate training</td>
<td>Chair: Wallace E. Dixon, Jr.</td>
<td>1:00pm - 2:50pm</td>
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<td>Participants: Martha E. Arterberry, Leslie B. Cohen, Wallace E. Dixon, Jr., Arnold Sameroff, Mark A. Schmuckler, P. Hull Smith</td>
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<td>Poster Session</td>
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**Sa32**  
**Mechanisms of word learning**
1. Infants’ use of syntactic cues to learn proper names and count nouns  
   *Julie Belanger, D. Geoffrey Hall*
2. The assignment of word forms to syntactic classes in early language acquisition  
   *Barbara Hoehle, Juergen Weissenborn, Dorothea Kiefer, Antje Schulz, Michaela Schmitz*
3. Talker variability and infant word learning  
   *George J. Hollich, Peter W. Jusczyk, Michael R. Brent*
4. Do 18-month-olds map novel labels to actions or objects?  
   *Marina Katerelos, Diane Poulton-Dubois*
5. Language experience and the organization of brain activity to phonetically similar words: ERP evidence from 14- and 20-month-olds  
   *Debra L. Mills, Chantal Prat, Christine Stager, Renate Zangl, Helen Neville, Janet Werker*
6. The object formerly known as a zav: Two-year-olds show the passover effect  
   *Erin M. Noonan, William E. Merriman*
7. Lights, camera, action! Infants and toddlers create action categories  
   *Sara J. Salkind, Jennifer L. Sootsman, Roberta M. Golinkoff, Kathy Hirsh-Pasek, Mandy J. Maguire*
8. The influence of object pre-exposure on 2-year-olds’’ disambiguation of novel labels  
   *Juana T. Turner, Annette M.E. Henderson, Susan A. Graham*

**Sa33**  
**Emotional development**
9. Antecedents and outcomes of effortful control: Links to early attention regulation and later social competence  
   *Ashley L. Hill*
10. Mothers’ accurate identification of negative infant emotions: The role of childhood history and emotional competencies  
    *Esther M. Leerkes, Susan Crockenberg*
11. Age differences in the intensity of emotional expression in 7- through 13-month-old infants  
    *Marta E. Losonczy, Linda J. Brandi*
12. Exploring the correlates of contextually inappropriate affect  
    *Robin L. Locke, H. Hill Goldsmith*
13. The role of self-concept development in the development of empathy during infancy  
    *Ronit Roth-Hanania*
14. Six-month-old infants’ responses to jealousy-inducement and still-face maternal unresponsiveness  
    *Sibyl Hart, Edward Z. Tronick, Heather Carrington*

**Sa34**  
**Visual attention**
15. Visual pop-out in infancy: Evidence from eye movement latencies  
    *Scott A. Adler, Jazmine Orprecio*
16. Working memory and visual expectations in infancy  
    *Scott A. Adler, Lina Zeilikman, Sahar Mosadegh*
17. Emotional modulation of attention orienting in infants: An inhibition of return study  
    *Hanne Braard, Kjell Morten Stormark*
18. Attention and object discrimination by 4-month-old infants: Application of the structural-description approach  
    *Robert A. Haaf, Anne L. Fulkerson, Brandon Jablonski*
19. The influence of abstract and meaningful stimuli on shifts of visual attention in very young babies  
    *Sabine Hunnius, Rein H. Geuze*
20. Color and size as determinants of global and local processing in 4-month-old infants  
    *Brandon J. Jablonski, Robert A. Haaf*
21. Developmental changes in the main sequence using interesting visual stimuli  
    *Brittany McKinney, Elizabeth Lewis, Virginia Wills, John E. Richards*
22. Cortical sources of the P1 / N1 validity effect in spatial cueing in young infants  
    *John E. Richards*
23. Development of infant attention to static and dynamic stimuli  
    *D. Jill Shaddy, John Colombo*
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<td>J. Gavin Bremner, Scott P. Johnson, Alan M. Slater, Ursula C. Mason, Kirsty Foster</td>
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<td>Self-sitters know that objects should fall straight down</td>
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<td>Are infants in the dark about hidden objects?</td>
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<td>Teaching infants to reason about height in a physical reasoning task</td>
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<td>A longitudinal study of event-related brain potential (ERP) waveform morphology and visual recognition memory during the first year of life.</td>
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<td>Jennifer Hill Karrer, Rathe S. Karrer, Jennifer Vavold, Melanie Parks, Meaghan Beever</td>
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<td>Event-related potentials and recognition memory in 12-month-old infants of diabetic mothers</td>
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<td>Tracy DeBoer, Sandi Wewerka, Alissa Borscheid, Charles A. Nelson</td>
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<td>One vs. two word phrases to elicit auditory recognition memory in 1-month old infants</td>
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<td>Raye-Ann deRegnier, Sandi Wewerka, Michael K. Georgieff, Charles A. Nelson</td>
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<td>Competition for working memory resources in 9-month-old infants</td>
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<td>Kevin A. Pelphrey, Anna Kroncke, Tiffany Moore, Barbara D. Goldman, Judy Morrow, J. Steven Reznick</td>
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<td>Relations between explicit and implicit memory systems in infancy as measured by two event-related potential paradigms</td>
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<td>Autism Observation Scale for infants: Data on inter-rater and test-retest reliability</td>
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<td>The relation between maternal self-efficacy and the functioning of children receiving early intervention services</td>
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<td>Amy Buchanan, Elizabeth Stanley, Jeanne Wilcox</td>
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<td>Preliminary findings of a joint attention-focused parent training intervention for pre-school children with autism</td>
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<td>Tony Charman, Auriol Drew, Gillian Baird, Simon Baron-Cohen, Sally Wheelwright, John Swettenham</td>
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<td>Autistic toddler expressive language development with treatment: The similar sequence hypothesis</td>
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<td>Philip R. Zelazo, Caroline Reid, Mafalda Porporino, Nicholas Hall, Eva DeChef</td>
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<td>Behavioral risk markers in 12-month-old siblings of children with autism</td>
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<td>Lonnie Zwaigenbaum, Susan Bryson, Vicki Rombough, Catherine McDermott, Wendy Roberts, Peter Szatmari, Jessica Brian</td>
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### Categorization

**Sa38**

44. Infants’ understanding of animate and inanimate motion trajectories  
*Tamara L. Demke, Rachel K. Baker, Diane Poulin-Dubois*

45. Infants’ generalization of motion and mental properties to animals and people  
*Sarah Frenktiel, Diane Poulin-Dubois*

46. A developmental investigation of category asymmetry: Do prior representations influence infants’ categorization of cats and dogs?  
*Stephanie Furrer, Barbara Younger-Rossmann*

*Bob McMurray, Richard N. Aslin*

48. Reversing perceptual category asymmetries in 3- to 4-month-olds  
*Robert M. French, Denis Mareschal, Paul C. Quinn, Martial Mermillod*

49. Seven- and 9-month-olds can discriminate cats from dogs in an object examination task  
*Denis Mareschal, Daisy Powell*

50. In the air or on the ground: Infant knowledge of the motion properties of animals and vehicles  
*David H. Rakison*

51. The role of children’s actions in categorization performance  
*Jennifer Schwade*

52. Newborns’ perceptual categorization for open and closed forms  
*Chiara Turati, Francesca Simion, Lara Zanon*

### Representation and theory of mind

**Sa39**

53. The influence of infant and maternal factors on perception of infant intentionality  
*Christine Delgado, Irene Delgado*

54. Common brain behavior associations in infant joint attention and theory of mind ability  
*Peter Mundy, Courtney Burnette*

55. Three-year-olds know that trying is not pretending  
*Hannes Rakoczy, Tricia Striano, Michael Tomasello*

56. Toddlers’ behaviors during maternal pretense episodes  
*Rebekah A. Richert, Angeline S. Lillard, Amrisha Vaish*

57. 16-month-olds’ understanding of seeing  
*Beate Sodian, Claudia Thoermer, Ulrike Metz, Barbara Schoepfner*

### Parent-infant interaction and other Issues

**Sa40**

58. Correlates of an adaptive mother-infant relationship  
*Lisa Brown, Karen Pridham*

59. Social and communication skills of post-institutionalized children  
*Maria Kroupina, Dana E. Kuefner, Liliana Pinete, Megan Gunnar, Dana E. Johnson*

60. When mutual regulation fails in everyday contexts of parent-infant interactions  
*Mechthild Papousek, Harald Wurmser*

61. The effect of maternal soothing on infant stress vocalizations during inoculation  
*Kjell Morten Stormark*

62. Age-related associations between individual behavioral disorders in early childhood  
*Harald Wurmser, Mechthild Papousek*

### Parenting

**Sa41**

63. Continuity and stability of parenting beliefs across early childhood among Japanese American and South American Families  
*Linda R. Cote, Marc H. Bornstein*

64. Parental beliefs in cultures of origin, acculturating cultures, and cultures of destination  
*Marc H. Bornstein, Linda R. Cote*

65. Why is the social support of infant care providers related to the quality of the care they provide?  
*Cheryl A. Fortner-Wood, James G. Ellicker, Illene C. Noppe, La-Ruth I. Brooks*
**Sa42 Invited Symposium**

**Perspectives on the early development of consciousness**

Chair: Philip D. Zelazo  
3:00pm - 4:50pm  
ONTARIO

- Consciousness of belonging: Where infants learn what others mean  
  Maya Gratier, Colwyn Treharthen

- Levels of consciousness and their implications for action  
  Philip D. Zelazo, Philip R. Zelazo

- Consciousness and intentional relations: A developmental perspective  
  John Barresi, Chris Moore

Discussant: Tom Dalton

**Sa43 Symposium**

**Maternal depression effects on fetal reactivity, infant perception, breast-feeding, and biobehavioral responses to interactions**

Chair: Tiffany Field  
3:00pm - 4:50pm  
CONFEDERATION

- Maternal depression effects on vibratory stimulation response in late-term fetuses: Preliminary findings  
  John Dieter, Eugene K. Emory, Zehra Ansari

- EEG responses to smells and tastes by infants of depressed mothers  
  Maria Hernandez-Reif, Mercedes Fernandez-Ajhar, Tiffany Field, Elliott Blass, Chris Sanders, Miguel Diego

- Breastfeeding stability promotes positive infant temperament and optimal EEG patterns in infants of depressed mothers  
  Nancy A. Jones, Barbara A. McFall, Blanca X. Zeas, Jena Williams

- Facial expressions, EEG, and cortisol responses in infants of depressed mothers with intrusive and withdrawn interaction style  
  Miguel A. Diego, Tiffany Field, Maria Hernandez-Reif

Discussant: Jacqueline Nadel

**Sa44 Symposium**

**The development of ordinal numerical knowledge**

Chair: Elizabeth M. Brannon  
3:00pm - 4:50pm  
TUDOR

- The ability of 12- and 16-month old infants to perceive continuous and discrete ordinal relationships  
  Mark Strauss

- Representations underlying more/less comparisons  
  Lisa Feigenson

- Ordinal number discrimination in 9-month-old infants  
  Susan J. Hespos, Elizabeth S. Spelke

- The development of ordinal numerical knowledge between 9 and 11 months of age  
  Elizabeth M. Brannon

Discussant: Karen Wynn
**Symposium**

*Longitudinal approach to the effects of prematurity on mother-infant interaction and attachment*

The process of attachment with premature infants

*Ayala Nicole, Blaise Pierrehumbert, M. Forcada-Guex, C. Muller-Nix, F. Ansermet*

Preterm infants, preterm mothers: What makes their interaction different?

*Magda Kalmar, Patricia Medgyesi, Anna Kovacs, Ildiko Toth, Judit Gervai*

Very-low-birth-weight infants: Does early intervention improve development and mother-child interaction?

*Karin Stjernqvist*

Co-Naître: A home based intervention following a very premature birth

*Josee Laganiere, Stephanie Larin, Line Nadeau, Réjean Tessier*

Discussants: Judi Gardner, Réjean Tessier

**Keynote Address**

*Evolutionary constraints on object knowledge*

*Marc Hauser*
### Sunday, April 21, 2002

#### Su01 Symposium
**Ontogeny of eye gaze processing Part II: Infants’ use of eye gaze information for learning and mind-reading**

Joint visual attention and novel label acquisition: Attention-following and attention-switching revisited  
*Christina G. Phill, Ross Flom, Anne D. Pick*

The role of gaze direction and mutual exclusivity in guiding 24-month-olds’ word-object mappings  
*Susan A. Graham, Kara Olineck*

Infants’ use of gaze to choose objects and learn what to do with them  
*Donna Mumme, Leslie Adams Lariviere, Rachael Fuchs, Emily W. Bushnell*

A fresh look at gaze: Infants’ attribution of desires from peoples behaviors toward objects  
*Diane Poulin-Dubois, Paula Bennett*

Are eyes windows to a deceiver’s soul? Young children’s interpretation of triadic eye gaze cues in a deceptive situation  
*Alejo Freire, Michelle Eskritt, Kang Lee*

Discussant: *Darwin Muir*

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#### Su02 Symposium
**Interpreting dissociations between infant looking and reaching: A comparative approach**

A comparison of looking and reaching in pre-schoolers’ search  
*Bruce Hood, Vicky Cole-Davies, Melanie Dias*

Two-year-olds’ understanding of event outcomes when looking and reaching  
*Clay W. Mash, Rachel K. Clifton, Neil E. Berthier*

Two approaches to understanding knowledge dissociations: Ancillary deficits and graded representations  
*Yuko Munakata*

Monkey see versus monkey do: Dissociations between looking and acting in a non-human primate  
*Laurie R. Santos, Marc D. Hauser*

Discussant: *Elizabeth S. Spelke*

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#### Su03 Symposium
**Perinatal stress, alleviation, and long-term consequences**

Literature review on perinatal stress, stress alleviation in preterm infants, and long-term consequences of early adverse events  
*Ayala Nicole, François Ansermet, Blaise Pierrehumbert, Carole Muller-Nix, Margarita Forcada-Guex*

Olfactory experience mediates response to pain in preterm newborns  
*Nathalie Goubet*

Profiles on the Neonatal Behavioral Assessment Scale (NBAS) according to the health status among preterm babies  
*Margarita Forcada-Guex, Carole Muller-Nix, Ayala Nicole, Adrien Moessinger, François Ansermet*
Family-centered developmentally supportive care in very-low-birth-weight infants  
*Karin Sjernqvist, Anita Kleberg, Björn Westrup*

**Discussant: Nadia Bruschweiler-Stern**

**Su04 Symposium**  
**Perception of illusory contours and partly occluded objects in infancy**

Chair: Gergely Csibra  
9:00am - 10:50am  
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Two-month-old infants perceive kinetic illusory contours  
*Scott P. Johnson*

When do infants perceive static subjective contours?  
*Michael J. Kavsek*

Infant perception of occlusion: Modal and amodal completion  
*Kirsten Condry*

Illusory contours form illusory objects in 8-month-old infants  
*Gergely Csibra*

**Discussant: Albert Yonas**

**Poster Session**  
9:30am - 11:20am  
CANADIAN

**Su05 Social communication and language**

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   *Louise Fahy, Maria Legersee*
| 3 | Changing dynamics of early mother-infant communication: A multiple case-study approach  
   *Kelly Forward, Barry Penning, Magdalena Orr, Andréa P.F. Pantoja, Maria Lyra, Micheline de Souza e Silva*
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| 5 | Changes in caregiver speech to prelinguistic infants over time. Is there a significant shift between 6 and 16 weeks?  
   *Myron Korman, Charlie Lewis*
| 6 | Individual changes in the coordination of infant smiles and gaze with age  
   *Marygrace E. Yale, Daniel Messinger, Alan Cobo-Lewis, Susan Acosta, Laura Bozani, Alan Fogel*

**Su06 Word segmentation, recognition, and bilingualism**

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   *Toben H. Mintz*
| 9 | The relationship between perceptual dissimilarity and processing time on infant word recognition  
   *James L. Morgan, Leher Singh, Heather Bortfeld, Karen Rathbun, Katherine White, Jennifer Anderson*
| 10 | Word segmentation by infants with Williams syndrome: Use of prosodic and statistical cues  
    *Thierry Nazzi, Sarah Paterson Annette Karmiloff-Smith*
| 11 | Infants’ emerging comprehension of absent reference  
   *Megan M. Saylor, Dare A. Baldwin*
| 12 | Sources of fragility in early word recognition: Differential effects of affect, amplitude, and absolute pitch  
   *Leher Singh, James L. Morgan*
| 13 | The effects of phonological variation on infant word recognition  
   *Katherine White, James L. Morgan*
| 14 | Pragmatic development of bilingual pre-school children  
  | Liane Comeau, Fred Genesee |
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  | English, French, and bilingual infants  
  | Linda Polka, Megha Sundara, Stephanie Blue |
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  | Edouard Gentaz, Arlette Sterri |
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  | Anne L. Fulkerson, Stacey S. Shull, Robert A. Haaf |
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  | Céline Leblond-Maire |
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cognitions: Impact on caregiving and infant outcomes

Maternal self-efficacy: Role of maternal illusory control and developmental outcome
Wilberta Donovan, Lewis Leavitt

Self-efficacy beliefs, competence in parenting, and infant and toddler outcomes
Priscilla Coleman

Mothers’ expectations for their infants’ performance on the Bayley Scales of Infant Development
Katherine Karraker, Melissa Atkins, Priscilla Coleman, Lesley Epperly Cottrell

Adults’ attitudes toward sibling rivalry
Sybil Hart

Discussant: Douglas Teti

Su17  Discussion
Methods of computer-based eye-tracking for use
with infants

Participants: Richard N. Aslin, Claes von Hofsten, Sabine Hunnius, Scott P. Johnson,
Eileen Mansfield, Bob McMurray

Chair: Marilyn Stern
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