10th Biennial
International Conference on Infant Studies
April 13-21, 1996
The Westin Hotel
and The Rhode Island Convention Center
Providence, Rhode Island
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Inside Front Cover
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10th Biennial
INTERNATIONAL CONFERENCE ON INFANT STUDIES

Sponsored by the International Society for Infant Studies
Carolyn Rovee-Collier, President

April 18-21, 1996
Providence, Rhode Island

The Westin Hotel & The Rhode Island Convention Center

Conference Chair
Lewis P. Lipsitt
Brown University

Program Chair
J. Steven Reznick
Yale University

ACKNOWLEDGMENTS

The Tenth International Conference on Infant Studies received support from a number of sources. These included grants from the Harris Foundation, Johnson & Johnson Consumer and Personal Products Worldwide, Laurence Eribaum Associates, Manisses Communications Group, and the Sengstack Foundation. In addition, we were fortunate to receive support from Ablex Publishing Corporation and in particular its president, Walter Johnson. The International Society for Infant Studies also thanks Brown University for its cooperation and support.

The Conference has been carried on the shoulders of the Local Arrangements Committee and the Review Panel Chairs and members, but more significantly on the backs of stalwart conference assistant Joy Kennedy and her predecessor, Josephine Ventura. We are deeply indebted to them for their tireless devotion to this conference, their good sense in dealing with a myriad of uncertainties, and their upbeat mood throughout.
LOCAL ARRANGEMENTS COMMITTEE

Theodore Bosack
Lorraine Dennis
Cynthia García Coll
Beverly Goldfield
Eugene Goldfield
Joy Kennedy
Edna Lipsitt
Peggy McGrath
James Morgan
Nanci Weinberger

REVIEW PANELS

1. Neurobiology/
Psychophysiology/Biological Processes
Chair:
Charles A. Nelson
University of Minnesota

Ron Barr
Scania deSchonen
Nathan Fox
Megan Gunnar
Mark Johnson
John Richards
Nancy Snidman

2. Perception/Attention
Chair:
Darwin Muir
Queens University, Canada

Lorraine Bahrick
Andre Bullinger
Albert Caron
Marsha Clarkson
John Colombo
Christine Deruelle
David Lewkowicz
Daphne Maurer
John Morton
Phillipe Rochat
Alan Slater
Janet Werker

3. Motor/Locomotor/
Sensorimotor
Chair:
Janette Benson
University of Denver

Karen Adolph
Daniel Ashmead
Henriette Bloch
J. Paul Boudreau
Emily Bushnell
Eugene Goldfield
Jeffery Lockman
Steven S. Robertson
Esther Thelen
Naomi Wentworth

4. Language/Communication
Chair:
Beverly Goldfield
Rhode Island College

Catherine Best
Philip Dale
Peter Jusczyk
Anat Ninio
Barbara Pearson
Judy Reilly
Catherine Snow
Michael Tomasello
Marilyn Vihman

5. Cognition/Intelligence/
Learning & Conditioning
Chair:
Gavin Bremner
Lancaster University, UK

Renee Baillargeon
Bennett Bertenthal
Marc Bornstein
Bruce Hood
Scott Johnson
Roger Lecuyer
Maria Legerstee
Fergus Lowe
Beryl McKenzie
Andy Melzoff
David Moore
Paul Quinn
Carolyn Rovee-Collier
Peter Willatts
Philip R. Zelazo
6. Social/Parent-Child Interaction/Peer and Sibling Interaction/Peer and Sibling
Chair:
David Oppenheim
University of Haifa, Israel

Doreen Arcus
Ora Aviezzer
Inge Bretherton
Celia Brownell
Ruth Feldman
Elizabeth Fivaz-Depeursinge
Hui-Chin Hsu
Alison Nash
JoAnn Robinson
Abraham Sagis
Howard Steele
Douglas Teti
Marinus van IJzendoorn
Suzanne Zeedyk

8. Early Environments/ Intervention
Chair:
Joy Ososky
LSU Medical Center

Alison Clarke-Stewart
Robert Clyman
Anne Culp
Hiram Fitzgerald
Chris Heinicke
Alicia Leiberman
Marva Lewis
Charles Zeana

10. Pediatrics/Medical/High Risk
Chair:
Philip Sanford Zeskind
VA Tech

Claire Coles
Tiffany Field
Jeannine Gingras
Sandra Jacobson
Bernard Karmel
Claire Kopp
Lewis Leavitt
Barry Lester
Stephen Porges
Fran Porter
Sandra Sexson
Lynn Singer
Ian St. James-Roberts
Edward Tronick

7. Temperament/Emotion
Chair:
H. Hill Goldsmith
University of Wisconsin

John Bates
Joan T. Bihun
Nathan Fox
Grazyna Kochanska
Claire Kopp
Sarah Mangelsdorf
Adam Metheny
Donna Mumme
Harriet Oster
Mary Rothbart
Cindy Stifter
Ross Thompson

9. Clinical/Psychopathology/
Developmental Delay
Chair:
Alice Carter
Yale University

Larry Aber
Dante Cicchetti
Roseanne Clark
Robert Emde
Byron Egeland
Brenda Jones
Ami Klin
Sally Rogers
Beth Shepard
Sheree Toth
Katherine Weinberg
Charles Zeana
GENERAL INFORMATION

TRANSPORTATION
Transportation to downtown Providence from T.F. Green International Airport, just outside of Providence, is available via shuttle and taxi. For those staying at the Holiday Inn, free shuttle transportation from the airport can be arranged through the hotel. Those staying at other area hotels (including the Westin) may choose to use Airport Van Shuttle, departing from the front of T.F. Green every fifteen minutes past the hour. The price is $9.00 one way and no reservations are necessary. Three local cab companies offering taxi service to and from the airport are: Best Taxi (800-310-1127 or 781-0706), Yellow Cab, Inc. (941-1122), and Arrow Cab Co. (946-5333).

Those arriving in Boston may travel to Providence via bus or train. Bonanza Bus Lines has a route from Logan Airport to Providence’s Kennedy Plaza (a five minute walk from the Westin Hotel). The charge is $14.00 one way. Buses depart Logan at 6:30 AM, 7:30, 9:30, 11:30, 1:30 PM, 3:30, 4:30, 5:30, 6:30, 8:30, 10:30 and 12:00 AM. Tickets can be obtained by calling 401-751-8800. Amtrak travels from Boston’s South Station (about a twenty minute taxi ride from Logan Airport) to the Providence train station (a five minute taxi ride from the Westin Hotel). The fare is $10-$11 one way, depending on the time of day. Trains depart South Station at 6:30 AM, 7:30, 9:05, 10:47, 12:15 PM, 2:40, 4:27, 6:15 and 9:35. Reservations may be obtained by calling 800-872-7245.

PARKING
Inexpensive all-day parking is available for $3.50 at Ray’s, an open lot across the street from the Westin Hotel. Parking is also available at the RICC and the Westin Hotel at higher rates.

CONFERENCE HOTELS

Westin Hotel (Headquarters)
1 W. Exchange St.
Providence, RI 02903
401-598-8000 or 800-228-3000

Marriott Hotel
Charles and Orms Streets
Providence, RI 02904
401-272-2400 or 800-937-7768

Providence Biltmore
Kennedy Plaza
Providence, RI 02903
401-421-0700 or 800-294-7709

Holiday Inn
21 Atwells Ave.
Providence, RI 02903
401-831-3900 or 800-HOLIDAY

BABY-SITTING SERVICE
Child care can be obtained through two agencies that arrange for baby-sitters. Call “We Sit Better Sources, Inc.” at 401-421-1213 between 9:00 AM and 5:00 PM (EST), or call “KidTime Babysitting” at 401-732-3112 between 9:00 AM and 9:00 PM (EST) Monday through Thursday, between 9:00 AM and 11:00 PM Friday and Saturday, or between 11:00 AM and 6:00 PM Sunday. KidTime makes arrangements only for children between ages 2 and 12, and provides the parent with a beeper. Both agencies require sufficient notice and a copy of the child’s immunization record, so pre-planning is a must.

PRECONFERENCE WORKSHOPS
• The Advances in Touch Research pre-ICIS workshop is the fourth in a series of gatherings of researchers interested in studying touch perception, the use of touch in communication, and the application of touch as therapy for various medical and psychological problems. The program this year will consist of:
Tiffany Field, Ph.D. - Moderator; Jean-Pierre Lecanuet, Ph.D. - Fetal Touch; Neena Modi, M.D. and Violette Glover, M.D. - Perinatal Stress: Clinical and Neuropathological Perspectives; Lynda Harrison, R.N., Ph.D. - Touch Therapy with Very Sick Preterm Infants; Gene Anderson, R.N., Ph.D. - Arousal Reduction Associated with Carrying Preterm Infants; John N.I. Dieter - A Sequential Multimodal Approach Towards the Stimulation of Premature Infants; Henriette Bloch, Ph.D. - Touching with Different Hands

The program will be held the morning of Thursday, April 18th, 1996 in the Bristol/Kent rooms at the Westin Hotel. For more information or to sign up for the workshop, contact: Tiffany Field, Touch Research Institute, P.O. Box 016820 (D-820), 1601 NW 12th Ave., Miami, FL 33101. O: 305-547-6781, F: 305-547-6488.

- Harriet Oster, Ph.D. will conduct a Baby FACS workshop (Facial Action Coding System for infants and young children) on Thursday, April 18th, from 9 AM to 12 PM. The workshop will be held in Room 553 of the Rhode Island Convention Center (RICC) and will focus on the repertoire of facial expressions in infants, including methods for coding intensities and variations in smiling and negative facial expressions, cross-cultural research with Baby FACS, and the use of Baby FACS for coding facial expressions in atypical infants, including preterm infants, infants with facial anomalies, and other populations of interest to the participants. Contact: Harriet Oster, 330 W. 58th St., #14G, New York, NY 10019-1840. O: 212-305-4482, F: 212-305-8883, H: 212-315-2880, E: ho48@columbia.edu.

- A workshop will be conducted by the Boston Institute for the Development of Infants and Parents (BIDIP) entitled, "Theoretical and Clinical Perspectives on Assessment in Infancy," on Thursday, April 18th, 9 AM to 12 PM in Room 552 of the RICC. Each panelist will provide an overview of an assessment that they use with infants and parents, evaluate the strengths and limitations of the assessment, and discuss issues of concern related to assessment for clinical and research purposes in their area of interest. The panel consists of:
  - Arnold Kerzner, M.D. - Moderator; Zack Boukydhis, Ph.D. - The Neonatal Network Neurobehavioral Scale (NNNS); Janice Ware, Ph.D. - The Bayley II; Ruth Rose-Jacobs, Sc.D. - The Movement Assessment of Infants; Sarah Birss, M.D. - Profile of Emotional Development: 0-3

There will be a focused discussion after each presentation and 40 minutes for discussion at the end. For more information, contact: Zack Boukydis, Infant Development Unit, Women & Infants Hospital, 101 Dudley St., Providence, RI 02905, O: 401 453-7690.

REGISTRATION
Registration areas will be located outside the Narragansett Ballroom in the Westin Hotel, both for pre-registrants and for on-site registrants. Registration counters will be open Thursday, April 18th, from 9:00 AM to 6:00 PM, Friday, April 19th, from 9:00 AM to 5:00 PM, and Saturday, April 20th, from 9:00 AM to 1:30 PM.

MEETING ROOMS
Symposia, Discussion Sessions, Lectures, and Social Events will take place in the Westin Hotel in the following rooms: Bristol/Kent, Newport/Washington, the Providence Ballroom, and the Narragansett Ballroom. Additional Symposia and Discussion Sessions will take place in rooms 550, 551, 552, 553, 554, 555, and 556 of the RICC, which is connected to the Westin Hotel by an enclosed walkway. Poster Sessions will take place in the Ballroom of the RICC. Exhibits will also be located in the Ballroom of the RICC.

MEALS
There will be coffee breaks provided on Friday in the Westin Hotel and on Saturday in the RICC, from 9:30 AM to 11:00 AM, courtesy of Lawrence Erlbaum Associates. Lunch breaks are scheduled for Friday and Saturday. The Westin Hotel offers both the Arbor Café, conveniently located by the walkway to the RICC, and Agora, a formal restaurant serving lunch on weekdays only. Sandwiches and beverages will be
MEALS (Continued)
available at concession stands outside the Ballroom in the RICC. In addition, there is a wide variety of local restaurants within easy walking distance of the Westin Hotel; a guide to these restaurants will be provided in the registration packet.

SOCIAL EVENTS
♦ Presidential Reception
  Thursday, April 18th, from 6:00 PM to 7:30 PM in the Narragansett Ballroom A and Prefunction Area (Westin Hotel). Hors d’oeuvres will be provided courtesy of Johnson & Johnson Consumer and Personal Products Worldwide. A cash bar will be available.

♦ Gala Dinner
  Friday, April 19th, from 7:30 PM to 11:30 PM in the Narragansett Ballroom (Westin Hotel). Entertainment will be provided by Geoff Kaufman and Larry Sayco. By reservation only. Tickets must be purchased by April 15th.

♦ Informal Gathering
  Saturday, April 20th, from 6:00 PM to 7:30 PM in the Narragansett Ballroom (Westin Hotel). Light snacks will be provided and beverages will be available at a cash bar.

SPECIAL EVENTS
♦ Student Award Presentations will be made on Thursday, April 18th, from 4:15 PM to 5:00 PM, just before the Presidential Address, in the Narragansett Ballroom (Westin Hotel).

♦ The Presidential Address will be held on Thursday, April 18th, from 5:00 PM to 6:00 PM in the Narragansett Ballroom (Westin Hotel).

♦ ISIS Executive Board Meeting will be held on Friday, April 19th, from 7:30 AM to 9:00 AM in the Executive Boardroom (Westin Hotel). Breakfast will be provided courtesy of Ablex Publishing Corporation.

♦ The ISIS Business Meeting will be held on Friday, April 19th, from 6:00 PM to 7:00 PM, in the Providence Ballroom (Westin Hotel).

♦ The Editorial Board of Infant Behavior and Development will meet on Saturday, April 20th from 12:30 PM to 2:00 PM in Agora (Westin Hotel). Lunch will be provided courtesy of Ablex Publishing Corporation.

CONFERENCE ABSTRACTS
Presentation abstracts have been published. Copies will be available at Ablex Publishing Corporation’s exhibit booth in the Ballroom of the RICC.

RECORDINGS OF SYMPOSIA AND LECTURES
Recorded Resources Corporation will be at the conference to audio tape all lectures and symposia. Consult their flyer in the registration packet or visit their exhibit booth in the Ballroom of the RICC.

EXHIBITORS
We have several publishers and manufacturers displaying their products. Exhibit booths are located next to the poster presentations in the Ballroom of the RICC. Exhibits will be open from 2:00 PM to 6:00 PM on Thursday, April 18th, from 9:00 AM to 5:00 PM on Friday, April 19th, from 9:00 AM to 5:00 PM on Saturday, April 20th, and from 9:00 AM to 12:00 PM on Sunday, April 21st.

HOSPITALITY
There will be restaurant and other local information available at a hospitality booth located just behind the escalators in the Westin Hotel lobby. Johnson & Wales University will graciously provide trained students with information on menus, as well as advice on local attractions.
INTRODUCTION
J. Steven Reznick, Program Chair

Having taken a turn in the driver’s seat, I now understand why conference programs are never perfect. Every decision is a trade off. You want quality control over what is presented? Okay, but that means that some submissions must be rejected, and nobody likes being rejected. You want a humane schedule that avoids pre-dawn presentations and allows a lunch break? Okay, but that means parallel sessions that will overlap in content. You want an optimal room size for each presentation? That is a difficult prediction at best, but is further constrained by the space that is available at the hotel. You want to please everybody? Forget it.

I gave it my best shot. My primary objective was to insure that the program would be interesting. To accomplish this, I used the Review Panel members as a very large Program Committee. With their help, I attempted to invite speakers and symposia that would challenge and inform. I also pushed the idea of informal discussion sessions. None was submitted, but I am hoping that the invited discussion sessions will be fruitful.

I made a few modifications that I hope will be improvements:

1) I removed limits on tertiary participation in the program (i.e., being a second or higher author). I did this because I think that a policy that causes authors to remove their names from their work because they are 'over the participation limit' is dishonest and unfair. As far as I can tell, this decision did not have any bad effects. Busy researchers with productive laboratories have many listings in the program index, but I think that it is important to know which laboratories are being represented. I am confident that a good effect of this change will be an improvement in the quality of posters (i.e., people will pay closer attention to the preparation of posters that will be associated with their name).

2) I attempted to organize posters into groupings that transcended the ten submission panel designations. There are many ways to taxonomize infancy research: types of subjects (e.g., normal infants, infants with various clinical or medical diagnoses, infants who have been randomly assigned to an intervention), types of measures (e.g., memory ability, attachment classification, temperament), or level of measurement (e.g., observation, parent report, physiology). Given the complexity of the taxonomy, any grouping is arbitrary, but I have made an effort to find/create coherence where possible. If I have succeeded, many of the poster aisles will seem like thematically related 'poster symposia'. Please take advantage of the opportunity to compare and contrast posters in the same aisle. Poster presenters are expected to remain beside their poster for the first 1.5 hours of the session but are free to roam for the second 1.5 hours. I hope that productive debate and discussion will emerge in the postered aisles of shared interest.

3) I changed the format for the published abstract to allow a full page of single-spaced text. Many submitters took advantage of this opportunity to provide a relatively detailed published report. It seems to me that if we are going to the trouble of establishing an archive of published abstracts, we might as well make those abstracts informative.

I hope that you find ICIS enjoyable and intellectually stimulating. We do not have a formal mechanism for obtaining feedback about the conference, but if you have comments or suggestions, please tell a member of the ISIS Executive Board (Carolyn Rovee-Collier, Esther Thelen, Tiffany Field, Peter Vietze, Marian Sigman, Judith Gardner, Henriette Bloch, Abraham Sagy, David Lewkowicz, Lewis Lipsitt, Steve Reznick, Leila Beckwith, Catherine T. Best, Rachel Clifton, Nathan Fox, Megan Gunnar, Anita Sostek, George Butterworth, Robert Emde, Bernard Karmel, Hiram Fitzgerald, or Susan Rose).
THURSDAY, APRIL 18TH
12:00 NOON - 2:20 PM

Invited Symposium

18IS1  THE LEGACY OF PIAGET: A CENTENNIAL PERSPECTIVE
       Organizer: Bennett I. Bertenthal
       Infant Perception From a Non-Conceptual Point of View
          George Butterworth
       Are Infants' Perception-Action Couplings Factors or Parts of Cognitive Development?
          Henriette Bloch
       Development and Knowledge: Some Lessons From Piaget
          Elizabeth S. Spelke
       Contrasting Approaches to Infancy: Behaviorism, Piagetianism, Nativism, Connectionism
          Annette Karmiloff-Smith
       Piaget's Legacy for Contemporary Research
          Robert S. Siegler & Shari Ellis
       Discussant: Bennett I. Bertenthal

Invited Symposium

18IS2  INTENTIONALITY: AN INTERDISCIPLINARY APPROACH
       Organizer: Philip D. Zelazo
       Introduction to Intentionality: An Interdisciplinary Approach
          Philip D. Zelazo
       The Role of Imitation in Developing a Theory of Mind
          Andrew N. Meltzoff
       Intentions of Intentionality and the Role of Consciousness
          Michael Lewis
       The Explanatory Role of Intention in Infant Development
          Douglas Frye
       Being Intentional and Understanding of the Intentions of Others
          Michael Tomasello

Invited Symposium

18IS3  MATERNAL DEPRESSION AND CHILD DEVELOPMENT: SHORT AND LONG TERM SEQUELAE
       FOR MOTHERS, INFANTS, AND FAMILIES
       Organizer: Douglas M. Teti
       The Role of Maternal Depression in Pre- and Postnatal Ratings of Infant Temperament in Two Cultures
          Alice S. Carter, Huei-Chen Ko, Rachel Chazan & Francis Garrity-Rokous
       Gender Differences in Depressed Mothers' Interactions With Their Infants
          M. Katherine Weinberg
       A Prospective Longitudinal Study of the Impact of Postnatal Depression on Child Development in a Low Risk Sample
          Lynne Murray
       Chronicity and Severity of Maternal Depression and Child Outcome During the First Three Years
          Douglas M. Teti, Donna M. Gelfand & Thomas P. George
       The Impact of Psychological Treatment of Postpartum Depression on Maternal Mood, the Mother-Infant Relationship, and Infant Outcome in a Low Risk Sample
          Peter Cooper
       Depressed Mothers, Their Infants, and Interventions
          Tiffany Field
       Discussant: Edward Z. Tronick
Submitted Symposium
18SS1  PROSODIC DEVELOPMENT: THE VIEW FROM PRODUCTION
Organizer: Marilyn M. Vihman
Acoustic and Perceptual Eulation of Stress
   Rory Depaoli, Marilyn M. Vihman & Barbara L. Davis
An Acousical Study of Prosodic Correlates of Stress in Babbling
   Barbara L. Davis & Peter F. MacNeilage
Trochees and lambs in Early Word Production
   Marilyn M. Vihman, Barbara L. Davis & Rory Depaoli
Linguistic Variability and Young Children's Acquisition of Prosodic Speech Timing
   David Snow
Discussant: Carol Stool-Gammon

Submitted Symposium
18SS2  PERSPECTIVES ON INFANT MEMORY
Organizer: Harlene Hayne
Investigating Memory and Deferred Imitation in 12-Month-Olds
   Pamela J. Klein & Andrew N. Meitzoff
A Developmental Analysis of Memory Retrieval
   Harlene Hayne
You Must Remember This: Effects of Video and Photograph Reminders on 1- and 2-Year-Olds' Long Term Memory
   Ellyn G. Sheffield & Judith A. Hudson
How Does Brain Development Relate to Memory Development?
   Leslie J. Carver & Michelle de Haan
Discussant: Patricia J. Bauer

Submitted Symposium
18SS3  NEW EVIDENCE FOR PERSISTENT NEUROBEHAVIORAL EFFECTS OF PRENATAL COCAINE EXPOSURE
Organizer: Sandra W. Jacobson
Effects of Heavy Prenatal Cocaine Exposure on Infant Cognition
   Sandra W. Jacobson & Lisa M. Chiodo
Information Processing and Developmental Assessments in Three-Month-Old Infants Exposed Prenatally to Cocaine
   Linda C. Mayes, Marc H. Bornstein, Katarzyna H. Chawarska & Richard Granger
The Effect of Prenatal Cocaine Exposure on Development at Three Years
   Gale A. Richardson & N. Day
Long-Term Cognitive and Attentional Effects of Intrauterine Cocaine Exposure
   Bernard Z. Karmel, Judith M. Gardner & Robert L. Freedland
Discussants: Deborah A. Frank & Diane Dow Edwards

THURSDAY, APRIL 18TH
1:00 - 4:00 PM

Poster Session (18PS1)
A1-5  VOCABULARY: PARENT REPORT
A1.    Continuity in Early Language Development
   Lyttinen, P. & Poikkeus, A.-M.
A2.    Parental Report of Early Language Use in Gifted and Non-Gifted Preschool Children
   Louis, B. & Lewis, M.
A3.    Language Skills in Low and Middle SES Toddlers as Determined by Parental Report
   Arriaga, R. I., Fenson, L., Cronan, T. & Jimerson, T.
THURSDAY PM

Fenson, L., Sweet, M. & Jimerson, T.

A5. Norms for the Spanish Language Version of the MacArthur CDI
Swaine, K. V., Renda, C., Jackson-Maldonado, D., Thal, D. & Fenson, L.

C1-10 EMOTION REGULATION, SELF REGULATION
C1. Developmental Change in Emotion Expression and Play: Indicators of Developing Emotion Regulation in Preschool-Aged Children
Teti, L. O.

C2. Development of Emotion Regulation: Investigation of Laboratory Paradigms and Physiological Responses
Sethure-Hofstad, L., Abeita, L., Rice, P. & Stansbury, K.

C3. Re-Emergence of Crying in Young Infants to Aversive and Nonaversive Stimuli
Ohr, P. S.

C4. Infant Adrenocortical and Behavioral Stress Reactivity and Subsequent Temperament
Ramsay, D. S. & Lewis, M.

C5. Age and Context Influences on Emotion Regulation Strategy Use in Infancy and Early Childhood
Bridges, L. J.

C6. Behavioral and Physiological Correlates of Toddler Anger Reactivity
Calkins, S. D. & Johnson, M. C.

C7. Attention and Distress in Infancy: A Longitudinal Study
Axia, G. & Bonichini, S.

C8. Maternal Behavior and Self-Regulation in Toddlers
Hungerford, A. & Brownell, C. A.

C9. Redefining Self-Regulation: The Role of the Caregiver in Children’s Regulatory Functioning
Spritz, B. L. & Stifter, C. A.

C10. Infant Self-Regulation of Positive and Negative Arousal
Powers, B. & Braungart-Rieker, J.

D1-8 SOCIAL INFLUENCES ON LANGUAGE
D1. Preschoolers Talk About Routine Events: Predictions from Toddlers’ Language Development and Social Environment
Genevro, I. L. & Andreassen, C.

D2. The Relationship Between Joint Attention at 6 and 8 Months and Language Competence During the Second Year
Saxon, T. F., Frick, J. E. & Colombo, J.

D3. The Use of Personal Pronouns by Parents and Children in Bilingual Families
Goodz, N. S. & Lightbown, P. M.

D4. Sources of Child Language Competence: A Multivariate Approach
Bornstein, M. H., Painter, K. M., Rose, A. M. & Haynes, O. M.

D5. Responding to Joint Attention and Language Development
Mundy, P. C., Gomes, A. & Willoughby, J. C.

D6. Book Reading and Early Vocabulary
Blake, I., Manchipi, M., Tannenbaum, R. & Borzellino, G.

D7. Maternal Feedback to Children’s Speech and Activity
Uzgiris, I. C., Raeff, C. & Edman, A.

D8. Parental Elaboration: A Little Goes a Long Way
Clark, M. M. & Wewerka, S. S.

E1-5 HANDEDNESS AND LATERALIZATION
E1. Handedness and Information Processing in 2-, 4-, and 6-Month-Old Infants
Segond, H. & Sterri, A.

E2. The Development of Midline Reaching: Sex and Asymmetric Differences

E3. Left- and Right-Hand Movements in Young Infants Have Different Organization
Morange, F.

E4. Interhemispheric Integration of Visual Information: A Developmental Study
Liegeois, F. & de Schonen, S.
E5. Manipulation Patterns in the Development of Multiple Object Management  
Kotwica, K. A. & Michel, G. F.

E6-10 ASSESSMENT OF TEMPERAMENT  
E6. Naturalistic Versus Laboratory Assessment of Temperament and Maternal Sensitivity  
Koren, M. & Seifer, R.

E7. Convergence Between Temperament Ratings of 3-Month-Old Infants  
Worobey, J.

E8. Mothers’ and Observers’ Concurrent Ratings of Toddler Temperament  
Braungart-Rieker, J.

Chazan, R. Z. & Carter, A. S.

E10. Changes and Continuities in Temperament: Reports of Mothers and Child Care Teachers  
Manlove, E. E.

F1-8 PERCEPTION OF MOTION AND PATTERN  
F1. Infants’ Sensitivity to Phase-Relations Within and Between Limbs of Biological Motion Displays  
Booth, A. E. & Bertenthal, B. I.

F2. Developmental Changes in Infants’ Responses to Point Light Displays of Human Gait  
Pinto, J. & Bertenthal, B. I.

F3. Looming Responses to Obstacles and Apertures: The Role of Accretion and Deletion of Background Texture  
Li, N. S. & Schmuckler, M. A.

F4. Visual-Propiroceptive Intermodal Perception Using Point Light Displays  
Schmuckler, M. A. & Fairhall, J. L.

F5. Perception of Symmetry by 4-Month-Old Infants  
de Haan, M. & Maurer, D.

F6. Infants’ Perception of Fragmented Figures  
Rose, S. A. & Jankowski, J. J.

F7. Convergent Evidence for Visual Pop-Out in Young Infants  
Quinn, P. C. & Bhatt, R. S.

F8. The Use of a Tri-Dimensional Index (Interposition) in a Bi-Dimensional Situation by 3- and 4-Month-Old Infants  
Lecuyer, R. & Durand, K.

G1-8 ATTENTION  
G1. Distractibility During Infants’ Focused Exploratory Activity Compared to Repetitive Rhythmic Activity  
Doolittle, E. J., Borenstein, S., Capozzoli, M. & Ruff, H. A.

G2. Attention Interruption Varies With Distracter Characteristics  
Tellingshusen, D. J. & Oakes, L. M.

G3. Attentional Inertia in 14-, 20-, and 26-Week-Old Infants  
Richards, J. E. & Gibson, T.

G4. Physiological and Behavioral Measures of Attention in 6-, 9-, and 12-Month-Old Infants During Toy Play  
Lansink, J. M. & Richards, J. E.

G5. Stimulus Movement and Peripheral Stimulus Localization by 20- and 26-Week-Old Infants  
Hicks, J. & Richards, J. E.

G6. The Development of Attentional Control: Performance on a Stroop-Like Task at 24, 30, and 36-38 Months of Age  
Gerardi, G., Rothbart, M. K., Posner, M. I. & Kepler, S.

G7. Speed/Accuracy Trade-Off in Infant Visual Information Processing  
Orlian, E. K. & Rose, S. A.

G8. Infant Attention to Visual Cue and Background Context: Asymmetric Processing of Visual Components  
Coldren, J. T. & Haaf, R. A.
**H1-8 PARENTING UNDER MEDICALLY FRAGILE CONDITIONS**

**H1.** Pre- and Perinatal Adversity, Quality of Mother-Infant Attachment, and Parenting Stress: A Preliminary Analysis  
Hoffines, V. L., White, K. A., Ashley, A. & Feldstein, S.

**H2.** African-American Mothers’ Experiences During Hospitalization of a Medically Fragile Infant  
Miles, M. S., Wilson, S. & Burchinal, P.

**H3.** Depression and Maternal Emotional Involvement in HIV-Infected Mothers  
Miles, M. S., Holditch-Davis, D., Wasilewski, Y. & Burchinal, P.

**H4.** Assessment of Interactions Between HIV-Positive Mothers and Their Infants  
Holditch-Davis, D., Krueger, C., Kewson, T. & Miles, M. S.

**H5.** Use of the HOME Inventory With Medically Fragile Infants  
Tesh, E. M. & Holditch-Davis, D.

**H6.** Young Children With Spina Bifida: Secondary Conditions and Quality-of-Life  
Huntington, G. S., Simeonsson, R. J., Sturtz, J. L. & Halperin, D. L.

**H7.** A Longitudinal Study of Parenting Stress After the Birth of a Very Low Birth Weight Infant  
Singer, L., Yamashita, T., Huang, J. & Davillier, M.

**H8.** Auditory Environments in Level II Versus Level III Neonatal Intensive Care Units  
Davidson, D. J., Levy, G. D. & Browne, J. V.

**I1-8 CATEGORIZATION**

**I1.** The Perceptual Foundations of Categorization in Infancy  
Van de Walle, G. & Hoerger, M.

**I2.** Infants’ Categorization in Sequential Touching  
Kannass, K. N., Oakes, L. M. & Criger, A. K.

**I3.** Infants’ Sensitivity to Changes in Ontological Kind  
Rosser, R. A., Narre, D. B. & Van Wyhe, R.

**I4.** Infants’ Categorization of Groups Specified by Consistent or Inconsistent Visual and Auditory Information  
Ellis, A. E., Beck, J. & Johnson, J. D.

**I5.** Infants’ Categorization of Basic and Global Categories  
Bittinger, K. A. & Madole, K. L.

**I6.** Development of Categorization Based on Feature Relations  
Bhatt, R. S., Wilk, A. & Rovee-Collier, C.

**I7.** The Role of Parts and Structure in Categorization by Young Children  
Rakison, D.

**I8.** 4-Month-Old Infants’ Categorization of Animals: What Roles Do Body Parts and Experience Play?  
Vidic, J. M., Haaf, R. A. & Loboschewski, T. W.

**J1-8 PARENT/CHILD INTERACTION: METHODOLOGICAL ISSUES**

**J1.** Mother-Infant Interaction at 13 Months: The Proposal of a New Code to Evaluate Turn-Taking During a Play Session With Prefixed Toys  
Venuti, P., Lis, A. & Coco, C.

**J2.** A Comparative Study of the Touch Interactions of Two Categories of At-Risk Infants and Their Caretakers  
Abecassis, J., Bulle, I. & Elbaz, C.

**J3.** Mother’s and Infant’s Interactive Behavior Across Situations: Routine and Free Play  
Gervai, J., Ney, K. & Toth, I.

**J4.** A Dynamic Systems Analysis of Parent-Infant Interaction in the Home, Free Play Context  
Holt, S. A. & Wood, R. M.

**J5.** Social Contingency: Divergent Measures?  
Snow, K. L. & Gotlieb, T. K.

**J6.** Segment Size and Sample Size: Effects on a Rating Scale Measure of Parent-Child Interaction  
McCollum, J. A. & Yates, T.

**J7.** DRUID: Data Reduction Utilities for Interaction Data  
Hannan, T. E. & Kienapple, K.

**J8.** Maternal Responsiveness Across Infant Domains: Correspondence and Prediction  
Nively, P., Baumwell, L. & Tamis-LeMonda, C. S.
HABITUATION AND MEMORY
K. Replication of Looking-Time Phenomena During a Pediatric Exam
   Morrow, J. D. & Carlson, J.
K. Selective Integration of Perceptual Information in Infant Memory
   Adler, S. A.
K. Event-Related Potential Measures of Long-Term Retention: Changes Between 3 and 5 Months
   Lykins, M. S., Thomas, D. G., Little, V., Letterman, M. & Andrews, J.
K. Holistic Processing in Infancy: Implications for Theories of Infantile Amnesia
   Hembrooke, H. & Spear, N. E.
K. Delayed Recognition Memory in Newborn Infants
   Laplante, D. P. & Orr, R. R.
K. Long-Looking Infants Are Slower to Disengage Fixation
   Frick, J. E., Colombo, J. & Saxon, T. F.
K. Long Encoding and Short Delay Times of the Auditory Sensory-Memory Trace in Newborns
   Cheour-Luhtanen, M., Alho, K., Lehtokoski, A., Renlund, M., Sainio, K. & Näätänen, R.
K. Stability in Habituation Organization Between 3 and 5 Months and the Relation to Fetal Growth
   DiModugno, M. K., Willatts, P. & Forsyth, J. S.
K. Individual Differences in Infant Visual Scanning During Habituation
   Krinsky-McHale, S. J. & Hainline, L.
K. What’s Different About Babies Who “Fail to Provide Data” in Habituation Experiments?
   Oates, J.

INTERVENTIONS: GENERAL
L. The Effect of an Early Intervention on Enhancing the Quality of Mother-Infant Interaction
   Wendland-Carro, J., Piccinini, C. & Millar, W. S.
L. Translating Developmental Knowledge from Research to the “Real World”
   Morisset, C. E. & Lines, P.
L. Preliminary Findings of the Effects of Pre- and Postnatal Home Visitation on Emotion Regulation in Infancy
   Robinson, J. & Mairmacher, J.
L. Longitudinal Evaluation of a ‘Teen Parents and Babies’ Program
   Honig, A. S. & Morin, C.
L. Is Contingency Intervention Effective?
   Sullivan, M. W., Laverick, D. & Lewis, M.
L. Outcomes of Two Interventions for Troubled Mother-Infant Relationships
   Cohen, N., Muir, E. & Løjkasek, M.
L. Parent-Implemented Treatment and Improved Play in Delayed Toddlers
   Kruzyński, A. K., Lainec, C., Zelazo, P. R., Reid, C. & Kay, D.
   McBrice, S., Peterson, C., McCollum, J. A. & Marvin, C.

POSTURE, CRAWLING AND WALKING
M. Relative Phase Relations in the Coupling of Infants’ Postural Responses to Optic Flow
   Rose, J. L. & Bertenthal, B. I.
M. Changing Patterns of Inter-Limb Coordination from Supported to Independent Walking
   Vereijken, B. & Waardenburg, M.
M. Roles of Variability and Experience in Development of Crawling
   Vereijken, B., Adolph, K. E. & Denny, M. A.
M. Replication Study: Seasonality and Locomotor Onset
   Benson, J. B.
N. Emergence of a Stepping Strategy: How Infants Learn to Walk Down Hills
   Adolph, K. E., Gill, S. V., Lucero, A. & Fadl, Y.
N. Footprint Method of Gait Analysis: New Insights into Infant Walking
   Adolph, K. E., Vereijken, B., Byrne, K., Urspruch, T., Ilustre, I. & Ondrako, A. M.
N. Context Effects on Neuromuscular Control During Stepping in Newly Walking Infants
   Ulrich, B., Angulo-Kinzler, R., Chapman, D. & Thelen, E.
Invited Symposium

18IS4 A BEHAVIORAL ASSESSMENT OF INFANT TEMPERAMENT: ISSUES AND REVISIONS
Organizer: Cynthia García Coll
A Behavioral Measure of Infant Temperament
Cynthia García Coll & Linda L. LaGasse
Persistent Infant Crying: Temperament or Developmental Transition?
Ian St. James-Roberts, Sue Conroy & Katie Wilsher
Temperament in IUGR and Non-IUGR Infants: A Comparison of Two Behavioral Measures
Leslie F. Haipern & Sharon A. Malkemus
Discussant: Ronald Seifer

Discussion Session

18DS1 INFANT PEDIATRIC PSYCHIATRISTS MEET THE ENVIRONMENT
Organizer: David Mrazek
Irene Chatoor, Children’s National Medical Center, Washington, DC
David Mrazek, Children’s National Medical Center, Washington, DC
Neil Boris, Children’s National Medical Center, Washington, DC

Submitted Symposium

18SS4 REFLEX MODIFICATION AS A MEASURE OF SPEED OF INFORMATION PROCESSING IN NEONATES: IMPLICATIONS FOR MENTAL DEVELOPMENT
Organizer: Suzanne Dziurawiec
Blink Reflex Modification in Neonates and its Relationship to Maturational Indices
Suzanne Dziurawiec
A New Approach to Measuring Intelligence in Neonates: Blink Reflex Modification
Mike Anderson
Discussant: Scania de Schonen

Submitted Symposium

18SS5 MOTHERS’ WORKING MODELS OF INFANTS: THE ROLE OF RISK FACTORS
Organizer: Sydney L. Hans
The Contribution of Maternal Variables and Preterm Birth as Risk Factors for Insecure Models of Attachment
Suzanne M. Cox & Joyce Hopkins
Representations and Mother-Infant Interaction: Mothers Recovering from Cocaine/Polydrug Addiction and Their 12-Month-Old Infants
Jane R. Vanbremen
Inner City Mothers’ Working Models of Their Toddlers: The Impact of Maternal Psychological Distress
Belinda E. Sims, Sydney L. Hans & Victor Bernstein
Discussant: Charles H. Zeana
Submitted Symposium
18SS6 IMPLEMENTATION OF COMBINED HEALTH AND DEVELOPMENTAL EDUCATION INTERVENTION FOR HIGH RISK MOTHERS: A CITY-WIDE COLLABORATIVE RESEARCH PROGRAM
Organizer: Kathy S. Katz
Infant Mortality in the District of Columbia: A Program to Address the Problem Through Improved Parenting and Health Care Utilization
Marian Jarrett
Challenges of Institutional Collaboration in Implementation of 'The Pride in Parenting' Research Project
Doris M. Johnson, Ayman El-Mohandes & Davene White
Home Visiting for Improving Health Care Utilization and Parenting Skills in Urban Minority Populations
Kathy S. Katz, Susan Schneider & Phyllis Sharps

Submitted Symposium
18SS7 NEONATAL PSYCHONEUROIMMUNOLOGY IN PERSPECTIVE
Organizer: Elvidina N. Adamson-Macedo
Secretory Immune Responses of Ventilated Preterms to Gentle/Light and Systematic Stroking
Julie A. Hayes, Elvidina N. Adamson-Macedo & Shantha Perrera
The Equilibrium Model: Understanding the Psyconeuroimmunology of the Preterm Neonate
Elvidina N. Adamson-Macedo
Cardiac Responses of Ventilated Preterms to Systematic and Random Gentle/Light Stroking
Aine de Roiste, I. Bushnell & Elvidina N. Adamson-Macedo

Submitted Symposium
18SS8 AROUSAL, EMOTIONAL MODULATION, AND OTHER SPECIFIC EFFECTS OF PRENATAL COCAINE EXPOSURE AND A DRUG-USING ENVIRONMENT
Organizer: Margaret Bendersky
Impaired Regulation of Arousal in Three-Month-Old Infants Exposed Prenatally to Cocaine and Other Drugs
Linda C. Mayes, Marc H. Bornstein & Katarzyna H. Chawarska
Emotional Modulation in Response to Stressful Situations in Infants Exposed to Cocaine
Margaret Bendersky & Michael Lewis
The Influence of Maternal Psychological Distress in the Development of Cocaine Exposed Infants
Lynn Singer, K. Parkas, R. Arendt, S. Minnes, J. Huang & T. Yamashita
Discussant: Judith Gardner

THURSDAY, APRIL 18TH
4:15 PM - 5:00 PM
ICIS STUDENT AWARDS
Dissertation Award:
Scott A. Adler, Rutgers University
Young Investigator Award:
Michael Lynch, Purdue University
Chair: Esther Thelen

THURSDAY, APRIL 18TH
5:00 PM - 6:00 PM
PRESIDENTIAL ADDRESS
18IA1 SHIFTING THE FOCUS FROM WHAT TO WHY
Carolyn Rovee-Collier
Chair: Esther Thelen

Narragansett Ballroom BC
THURSDAY, APRIL 18TH
6:00 PM - 7:30 PM

PRESIDENTIAL RECEPTION
Narragansett Ballroom A & Prefunction Area
Sponsored by:
Johnson & Johnson Consumer and Personal Products Worldwide and
Ablex Publishing Corporation
FRIDAY, APRIL 19TH
7:30 AM - 9:00 AM
ISIS Executive Committee
SPONSORED BY: Ablex Publishing Corporation
Executive Boardroom
FRIDAY, APRIL 19TH
8:30 AM - 11:30 AM
Poster Session (19PS1)
RICC Ballroom

A1-5 MASTERY MOTIVATION
A1. A Description of Developmental Progress in Mastery Motivation
   Dichter-Blancher, T. B., Knauf-Jensen, D. E. & Busch-Rossnagel, N. A.
A2. Mastery Motivation, Child Competence, and Family Context
A3. The Development of Mastery Motivation in Deaf and Hearing Infants With Deaf and Hearing Parents
   MacTurk, R. H.
A4. Mastery Motivation and Self-Conscious Affect in Toddlers: Relations With Maternal Control and Evaluative Feedback
   Kelley, S. & Brownell, C. A.
A5. Mastery Motivation in Brain Injured Infants
   Vietze, P. M. & Kozlowski, E.

B1-3 FEEDING INTERACTION IN RISK SITUATIONS
B1. Feeding Interactions of Preterm Small-for-Gestational-Age Infants and Their Mothers
B2. Differential Maturation of the Autonomic Nervous System During Nipple Feeding in Term and Preterm Infants
   Medoff-Cooper, B., Verklan, T., Zhang, P. & Delivoria-Papadoyopoulos, M.
B3. Early Mother/Infant Interactions During Feeding: The Impact of Prenatal Cocaine Exposure
   Lane, S. J., Bayer, D. J. & Bleichfeld, B.

C1-10 EXPECTATIONS
C1. Cardiac and Motor Indices of Anticipation in 9-Month-Old Infants
C2. Age Differences in Anticipating Hierarchical Rule-Based Sequences
   Loboschekski, T. W., Smith, P. H. & Vidic, J. M.
C3. Changes in Facilitation During Sequential Learning: Infants' Ability to Make Use of Multimodal Information
   Loboschekski, T. W. & Smith, P. H.
C4. Independent Processes in the Formation of Expectations
   Wass, T. S., Bihun, J. T. & Haith, M. M.
C5. Infants' Expectations and Emotional Responsivity During Peekaboo Interactions
   Montague, D. & Walker-Andrews, A. S.
C6. Individual Growth Curves for Infant Saccade Reaction Time: Exponential Decline from 2-12 Months
   Canfield, R. L., Brezsnayak, M., Aaron, K. & Raitano, N.
C7. Developmental Invariance of Minimum Reaction Time in the Visual Expectation Paradigm
   Canfield, R. L., Snow, K. L., Brezsnayak, M. & Smith, E. G.
C8. Predictive Saccades in Two-Month-Old Infants: Implications for Current Neurophysiological Models of Visual Development
   Smith, E. G. & Canfield, R. L.
C9. Infant Visual Expectation in a Modification of the Cue-Target Procedure
   Betts, S. L. & Reznick, J. S.
C10. Transfer at 4, 8, and 12 Months in the Visual Expectation Paradigm
    Chawarska, K. H., Masse, M., Miranda, R. & Reznick, J. S.
D1-8 ATTACHMENT
D1. Emotional Engagement: The Common Thread Linking the Shareable Worlds of Mother and Infant
   Weissmann, L., Harding, C., Kromelow, S. & Arand, J.
D2. Frightening, Frightened, and/or Dissociated Behavior, Unresolved Loss and Infant Disorganization
   Schunegel, C., van Ijzendoorn, M. H., Bakermans-Kranenburg, M. J. & Blom, M.
   de Wolff, M. S., van Ijzendoorn, M. H. & van der Veer, R.
D4. Infant Attachment Is Reflected in Family Drawings of 7-Year-Olds
   Soane, K. & Goldberg, S.
D5. A Longitudinal Twin Study of Infant-Caregiver Attachment
   Finkel, D., Wille, D. E. & Matheny, A.
D6. Quality of Attachment and Recognition Memory for Emotion-Laden Drawings
   Kirsh, S.
D7. Attachment Security and Peer Experience: Influences on Dimensions of Social-Emotional Development
   Wells, M. E., Melson, G. & Bryan, Y. E.
D8. Attachment Among Neurologically Impaired Toddlers

E1-8 REASONING ABOUT OBJECTS AND EVENTS
E1. Infants' Understanding of Solidity: Replicating a Failure to Replicate
   Cohen, L. B., Gilbert, K. & Brown, P.-S.
E2. 2.5-Month-Olds' Reasoning About Occlusion Events
   Aguiar, A. & Baillargeon, R.
E3. 6.5-Month-Olds' Reasoning About Containment Events
   Aguiar, A. & Baillargeon, R.
E4. Infants' Reasoning About Collision Events: Should All Objects Be Displaced When Hit?
   Kaufman, L. & Baillargeon, R.
E5. Infants' Use of Featural Information in Reasoning About Object Identity: Reconciling Contradictory Results
   Wilcox, T. & Baillargeon, R.
E6. Infants' Reasoning About Object Identity in Moving Events With Static Endpoints: The Nature of the Mapping Problem
   Wilcox, T. & Baillargeon, R.
E7. Naïve Physical Reasoning in Two-Year-Olds: Discrepancies With the Infant Data
   Hood, B. M., Uller, C. & Carey, S.
E8. Eight-Month-Old Infants’ Reasoning About Collections
   Chiang, W.-C. & Wynn, K.

F1-8 CHILD CARE
F1. Quality of Infant and Toddler Center Care: Interrelations Among Process and Structural Measures
   Burchinal, M. R., Phillipsen, L., Cryer, D. & Howes, C.
F2. Quality of Infant Center Care and Infant Cognitive and Language Development
   Burchinal, M. R., Roberts, J. E., Nabors, L. A. & Bryant, D. M.
F3. Triadic Interaction in Families of Infants With Child-Care Experience
   Caldera, Y., Dickson, C. W. & Fowler, K.
F4. Postpartum Employment Patterns, Non-Parental Care Arrangements, and the Mother-Infant Relationship
   Symons, D. & Noiles, L.
F5. The Parent-Caregiver Relationship Scale: A Measure of the Adult Relationship in Infant Child Care
   Elicker, J. G., Noppe, I. C. & Noppe, L. D.
F6. Caregiver Social Support and Infant Family Daycare Quality
   Fortner-Wood, C. & Elicker, J. G.
F7. Child Care Experience, Stressors, and Fears in One-to-Two-Year-Olds
   Miller, P. M.
F8. Predicting and Understanding Maternal Employment During the Transition to Parenthood
   Slatton, W. D.
G1-8 HAPTIC AND INTERMODAL PERCEPTION
G1. Exploration of Conflicting Visual and Proprioceptive Information by 3- and 5-Month-Old Infants
Morgan, R. & Rochat, P.
G2. Tactual Discrimination of Texture in Infants Between 4 and 7 Months
Coughnot, P. & Peze, A.
G3. Hemispheric Asymmetry in Infancy: Global or Local Processing of Objects in the Haptic Mode
Streri, A., Dion, A. & Mertz, C.
G4. Haptic Discrimination of Material Properties by 3-Month-Old Infants
Bushnell, E. W., Rosenblatt, B., Gill, M. & Striano, T.
G5. Identification of Shape and Texture Using Passive and Active Touch
O’Dell, C. D. & Katz, H.
G6. Receiving Visual-Tactual Relations in Infancy
Hernandez-Reif, M. & Bahrick, L. E.
G7. Increasing Specificity in the Development of Infants’ Sensitivity to Two Nested Amodal Relations
Bahrick, L. E.
G8. Three-Month-Olds’ Expectations About Auditory-Visual Relations
Morrongiello, B. A. & Batchelor, C.

H1-8 CULTURAL DIFFERENCES IN SOCIALIZATION

H1. Cultural Variations on the Socialization of Emotion: Observations from Rural Nepal
Cole, P. M. & Tamang, B. L.
Wiley, A., Rose, A., Burger, L. & Miller, P.
H3. Region-of-Origin Difference in Maternal Verbal Responses to Infant Affect
Tingley, E. C.
H4. Toddlers’ Free Play Activities With Their Mothers, Older Siblings, and Peers in the U.S. and Mexico
Farver, J. M.
Oster, H., Camras, L., Campos, J. J., Campos, R., Ujice, T., Zhao-Lan, M. & Lei, W.
H6. Contexts as Moderators of Observed Interaction: A Study of Costa Rican Infants and Mothers from Differing Socioeconomic Backgrounds
Leyendecker, B., Lamb, M. E. & Frick, D. M.
H7. A Cross-National Study of Beliefs About Parenting Toddlers: Self-Perceptions and Attributions in Argentina, Belgium, France, Israel, and the United States
H8. Comparative Child Rearing Practices: An Examination of Maternal Interactive Strategies During Mother-Infant Face-to-Face Interaction in Puerto Limon (Costa Rica) and Boston (U.S.A.)
Stansbery, P. & Olson, K.

I1-8 INFANT PSYCHOPATHOLOGY AND BEHAVIOR PROBLEMS
I1. Temperament of Very Young Infants Born With Down Syndrome
Zickler, C. F., Morrow, J. D. & Bull, M. J.
I2. Communication Skills of Young Autistic Children: Relations Between Deficit Areas
Sheinkopf, S. J., Steffens, M. L., Mundy, P. C. & Oller, D. K.
I3. Executive Function Deficits in Young Children With Autism? A Non-Replication
I4. Autistic Toddlers: Are They Attached?
I5. Behavioral Psychopathology in Infants of Disaster
Azarian, A., Lipsitt, L. P. & Skripchenko, V.
I6. Trichotillomania in Infants and Toddlers
Wright, H. H., Leonhardt, T. V. & Young, D. W.
I7. Predictors of Toddler Behavior Problems
Heereman, J. A., Jones, L. C. & Hatcher, D. V.
J1-8 PARENTAL PSYCHOPATHOLOGY AND STRESS
J1. Depressive Symptomatology and Maternal Perceptions of Toddlers
    Adam, E. K., Wefel, A. J. & Gunnar, M. R.
J2. Parental Depression, Marital Conflict, and Infant Temperament as Predictors of Parental Feelings of Competence
    With One-Year-Old Infants
    McElwain, N. L., Volling, B. L. & San Juan, R.
J3. Paternal Psychopathology on Family Functioning
J4. Sexual Abuse as a Factor in Child Maltreatment by Adolescent Mothers
    Spieker, S. J., Beasley, L., McMahon, R. J., Fung, H. & Osiander, E.
J5. The Effects of Psychopathology on Adolescent Mother-Infant Interactions
    Cassidy, B., Zoccolillo, M. & Hughes, S.
J6. A Measure of Parental Stress in Mothers of Small Children: Dimensionality, Validity, and Stability Over Time
    Ostberg, M., Hagekull, B. & Wettergren, S.
J7. Parental Stress, Social Support and Infant Temperament: Stability, Continuity, and Effects of Infant Sociability
    Fracasso, M. P. & Ryba, N. A.
J8. Diagnosing Mental Health Disorders in Toddlers: Relations to Observed Toddler Behaviors and Mothers’
    Diagnoses
    Jennings, K. D., Mammen, O., Scholle, R. & Popper, S.

K1-8 SPEECH PERCEPTION
K1. 9-Month-Olds’ Sensitivity to Internal Syllable Structure
    Goodman, M. B., Bauman, A. & Jusczyk, P. W.
K2. The Role of Syllable Stress in Young Infants’ Retention of Speech Information
    Houston, D., Jusczyk, P. W. & Jusczyk, A. M.
K3. When Do Infants Respond to Their Names in Sentences?
    Mandel, D. R. & Jusczyk, P. W.
K4. Infants’ Attention to Stressed and Word-Final Syllables: Implications for Word-Level Segmentation
    Childers, J. B. & Echols, C. H.
K5. Extracting Sentence Structure from Infant-Directed Speech
    Morgan, J. L.
K6. Infants’ Categorization of Unfiltered Infant-Directed Utterances
    Moore, D. S. & Spence, M. J.
K7. Infants’ Preferences for Their Mothers’ AD Speech or Unfamiliar Female ID Speech
    Abraham, J. L., Theaux, H. & Cooper, R. P.
K8. 4-Month-Old Female Infants Influenced by Visible Speech
    Desjardins, R. N. & Werker, J. F.

L1-8 INFANTS OF DEPRESSED MOTHERS
L1. Some Myths About Infant “Depression”: Infants of Depressed Mothers Do Not Develop a “Depressed Mood Style” of Interaction
    Pelayo-Nogueras, M., Cigales, M., Gonzalez, A. & Clasky, S.
L2. The Stability of Right Frontal Asymmetry in Children of Depressed Mothers
    Jones, N. A., Field, T., Davalos, M. & Pickens, J.
L3. One-Month-Old Infants of Depressed Mothers and Right Frontal Asymmetry
    Jones, N. A., Field, T., Lundy, B. L. & Davalos, M.
L4. Infants of Mothers With Depressive Symptoms Are Less Expressive
    Lundy, B. L., Field, T. & Pickens, J.
L5. Infants of Depressive and Non-Depressed Mothers Matching Vocal and Facial Expressions
    Lundy, B. L., Field, T., Pickens, J., Cigales, M. & Cuadra, A.
L6. Associations Between Maternal Depression and Infant Affect and Behavior
    Bosquet, M., Chazen, R. Z. & Carter, A. S.
L7. Infant Attention and Affect as a Function of Maternal Depression, Maternal Interaction Style, and Infant Gender
   Hart, S.
L8. 4-Month Infants of Depressed Mothers Show Diminished Vocal Activation in Response to Mother’s Voice
   During Face-to-Face Play
   Anderson, S., Beebe, B. & Jaffe, J.

M1-3, N1-3 BABBLING
M1. Late Onset Babbling as an Early Marker of Abnormal Development
   Eilers, R. E., Neal, A. R. & Oller, D. K.
M2. Intuitive Identification of Infant Vocalizations by Parents
   Oller, D. K., Basinger, D. & Eilers, R. E.
M3. Frame Dominance in Babbling: Further Evidence from Consonant-Vowel Co-Occurrence Constraints
   MacNeilage, P. F. & Davis, B. L.
   Levitt, A. G., Irwin, J. R. & Whalen, D. H.
   Whalen, D. H., Levitt, A. G. & Irwin, J. R.
N3. Infant Babbling and Native Language
   Edmondson, D.

FRIDAY, APRIL 19TH
9:00 AM - 11:30 AM

Invited Symposium RICC 553
19IS1 CONTRIBUTIONS TO THEORIES OF LANGUAGE ACQUISITION FROM BILINGUAL CHILDREN
Organizers: Catherine E. Snow & Beverly Goldfield
Dissociations in Lexical Development Across Languages in Early Simultaneous Bilinguals
   Barbara Z. Pearson
Two Languages, Two Morphemes: Bilingual Acquisition as a Source of Information About Early Language
   Learning
   Martha Crago, Stanley Allen & Fred Genesee
Language-Specific Versus Universal Properties of Early Syntax: Insights From Bilingual Infants
   Johanne Paradis
The Bilingual Child as the Ideal Matched Pair: Evidence From the Acquisition of Past Verb Forms in English
   and Dutch
   Amnick de Houwer
Bilingualism and Language Development in Infancy: Acquisition of Turkish and German by Migrant Children
   in Germany
   Carol Pfaff
Discussants: Catherine E. Snow & Beverly Goldfield

Invited Symposium RICC 551
19IS2 THE TODDLER PERIOD: TRANSITIONS AND IMPLICATIONS
Organizers: Claire B. Kopp & Celia A. Brownell
Early Referential Understanding and the Transition to Language
   Dare A. Baldwin
Transitions in Social-Cognition in the Second Year
   Celia A. Brownell
Transitions in the Second Year
   Robert N. Emde
Developmental Timing: Biobehavioral Processes in Early Life
   Claire B. Kopp & Douglas A. Granger
Discussant: Ronald E. Dahl
Invited Symposium

MEDICINE AND INFANT DEVELOPMENT: NEW TECHNIQUES AND CHALLENGES
Organizer: Lewis A. Leavitt
New Therapeutic Interventions That Improve the Outcome of Extremely Low Birth Weight (ELBW) Infants
William Oh
Mechanisms for Poorer Development in Iron-Deficient Anemic Infants
Betsy Lozoff, Patricio Peirano, Manuel Roncagliolo & Tomas Walter
Self-Regulation in Infants and Clinicians
John C. Gall
Discussants: Lewis A. Leavitt, Edward Goldson & T. Berry Brazelton
SPONSORED BY: Johnson & Johnson Consumer and Personal Products Worldwide

Submitted Symposium

INFANT NUTRITION: DIETARY EFFECTS ON THE DEVELOPMENT OF VISION, COGNITION AND LANGUAGE
Organizer: E. Eugenie Hartmann
Effects of Docosahexaenoic Acid Supplementation on Visual Acuity and Visual Attention of Preterm Infants
Susan E. Carlson & Susan H. Werkman
Longitudinal Measures of Visual Acuity in Full-Term Human Infants Fed Different Dietary Fatty Acids
E. Eugenie Hartmann & Kathleen M. Fitzgerald
Dietary Effects on the Development of Visual Acuity and Cognition in Healthy Term Gestation Infants
Sheila M. Innis & Caroleanne M. Nelson
The Effects of Fatty Acid Supplementation on the Brain and Language Development
Jeri Janowsky
Effects of N-3 Fatty Acid Deficiency and Supplementation on the Visual and Cognitive Development of Rhesus Monkeys
Martha Neuringer & Sydney Reisbick
Discussants: John Colombo & Sandra W. Jacobson

Submitted Symposium

EARLY PERCEPTION OF SOCIAL CONTINGENCIES
Organizer: Philippe Rochat
Early Discrimination of Motion Information Specifying Social Events
Philippe Rochat
3- to 6-Month-Olds' Sensitivity to Adult Intentionality: The Role of Adult Contingency and Eye Direction in Dyadic Interactions
Darwin W. Muir, S. Hains, Y. Cao & Barbara D'Entremont
Understanding Rational Actions in Infancy: Teleological Interpretations Without Mental Attribution
G. Gergely & G. Csibra
Early Interpersonal Timing and the Perception of Social Contingencies
Jacqueline Nadel
Discussant: Michael Tomasello

RICC 550
Bristol/Kent
Submitted Symposium

19SS4 THE NATURE OF EMOTIONAL DEVELOPMENT
Organizer: Michael Lewis
Consciousness and Emotional Development
Michael Lewis
Emotional Development as Formation of Connections Among Systems
Carroll B. Izard & Brian F. Ackerman
The Functionalist Approach to Emotion: Implications For Emotional Development
Joseph J. Campos
How Emotions Shape Development
Kurt W. Fischer, Pamela Raya, Rebecca Hencke & Catherine Ayoub
Discussant: Linda Camras

Submitted Symposium

19SS5 ASSESSMENT OF HIGH RISK INFANTS: USE OF STANDARDIZED TESTS IN CLINICAL AND RESEARCH SETTINGS
Organizer: Claire D. Coles
A Comparison of the First and Second Edition of the Bayley Scales of Infant Development in a High Risk Sample
Maureen Black
Theoretical and Practical Considerations in Planning Assessments For High Risk Infants
Josephine V. Brown
Effect of Psychometric Properties of the BSID-II on Assessment Outcomes in Two High-Risk Samples (Drug Exposed and Low Birthweight)
Julia A. Kable, Pamela Schuetze, Claire D. Coles, Kathleen A. Platzman & Tenbroeck Smith
Clinical Use of the BSID-II With High-Risk NICU Survivors
Sheena L. Carter & Maureen M. Larossa
Discussant: James S. Gyurke

FRIDAY, APRIL 19TH
10:00 AM - 11:30 AM
FRIDAY, APRIL 19TH
11:30 AM - 12:30 PM

LUNCH BREAK

FRIDAY, APRIL 19TH
12:30 PM - 2:20 PM

Discussion Session
Newport/Washington
19DS1 POST TRAUMATIC STRESS DISORDER IN INFANTS AND YOUNG CHILDREN
Organizer: Joy D. Osofsky
Joy D. Osofsky, Louisiana State University Medical Center
Betsy M. Groves, Louisiana State University Medical Center
Steven Berkowitz, Louisiana State University Medical Center

Discussion Session
Providence Ballroom
19DS2 PHYSIOLOGICAL MEASURES IN INFANT RESEARCH: DIVINING ROD OR PANDORA’S BOX
Organizer: Megan R. Gunnar
Megan R. Gunnar, University of Minnesota
Stephen J. Suomi, National Institute of Child Health and Human Development
Ronald G. Barr, McGill University and Montreal Children’s Hospital
Stephen Porges, University of Maryland
Michael Lewis, Robert Wood Johnson Medical School
Charles A. Nelson, University of Minnesota
Jerome Kagan, Harvard University

Discussion Session
Bristol/Kent
19DS3 WHAT CAN HUMAN INFANCY RESEARCHERS LEARN FROM RESEARCHERS WHO STUDY NUNHUMAN SUBJECTS?
Organizer: Kim A. Bard
Kim A. Bard, Yerkes Regional Primate Center
Carolyn Ristau, Barnard College of Columbia University
Dorothy Fragaszy, University of Georgia

Discussion Session
Narragansett Ballroom C
19DS4 FEDERAL AND NON-FEDERAL RESEARCH FUNDING: CONVERSATION SESSION
Organizer: Anita M. Sostek
Anita M. Sostek, Division of Research Grants/National Institutes of Health
Sarah L. Friedman, National Institute of Child Health and Human Development
Teresa E. Levitin, National Institute of Drug Abuse
Lonnie Sherrod, W. T. Grant Foundation
Holly A. Ruff, Albert Einstein College of Medicine
Vicky Levin, National Institute of Mental Health
Michael Katz, March of Dimes

Discussion Session
RICC 553
19DS5 PROBLEMS AND SOLUTIONS IN CROSS-CULTURAL ADAPTATION OF RESEARCH TOOLS
Organizer: Ruth Feldman
Ruth Feldman, Bar-Ilan University
Edward Z. Tronick, Harvard Medical School and Boston Children’s Hospital
Robert N. Emde, University of Colorado Health Science Center
Abraham Sagi, University of Haifa
Larry Fenson, San Diego State University
Harry McGurk, Australian Institute of Family Studies
Submitted Symposium

19SS6 EMOTIONAL AVAILABILITY IN MOTHER-CHILD DYADS: PREDICTORS ACROSS DEVELOPMENT AND RISK STATUS
Organizer: JoAnn Robinson
Quality of Infant-Mother Attachment as Related to Maternal Emotional Availability and Infant Reactivity
Yair Ziv, Abraham Sagit, Nina Karie-Koren & Tirtsa Jouels
Emotional Availability in Mother/Toddler Dyads of Different Risk Statuses
Sandra Pipp-Siegel
Adolescent Mothers and Their Children: Early Predictors of Emotional Availability at Age Four
JoAnn Robinson & Susan J. Speiker
Infancy Predictors of Emotional Availability in Middle Childhood: The Role of Attachment and Maternal Depression
M. Ann Easterbrooks, Karlen Lyons-Ruth, Gretchen Biesecker & Alison Carper
Discussant: Zeynep Birigen

FRIDAY, APRIL 19TH
1:00 PM - 4:00 PM

Poster Session (19PS2)

A1-5, C1-10 SEARCH FOR HIDDEN OBJECTS
   McCall, D. D. & Clifton, R. K.
A2. Tracking Invisible Spatial Transformations by 4- and 6-Month-Old Infants
   Hespos, S. J. & Rochat, P.
A3. Infants' Memory for the Features of Hidden Objects: Size as an Early Marker of Object Identity
   Narver, D. B. & Rosser, R. A.
A4. Young Habits Die Hard: When Hidden Toys Do Not Matter to 10-Month-Olds in the AB Task
   Munakata, Y. & McClelland, J. L.
A5. When It Helps to Occlude and Obscure: 6-Month-Olds’ Predictive Tracking of Moving Toys
   Munakata, Y., Jonsson, B., Spelke, E. S. & von Hofsten, C.
C1. Evoking Response in the Delayed Response Procedure
   Brandwein, B. B. & Reznick, J. S.
C2. Do Infants Know When They Are Searching Incorrectly? - Looking Times in a Non-Search ‘A Not B’ Task
   Ahmed, A. & Ruffman, T.
C3. Spatial Memory in Five-Month-Old Infants
   Newcombe, N., Huttenlocher, J., Learmonth, A. & Wiley, J.
C4. Use of External Frames of Reference and Dead Reckoning in Toddler’s Coding of Spatial Location
C5. Representing Invisible Displacements: Comparative Experiments of Human Children and Non-Human Primates
   Anderson, L., Santos, L., Hauser, M. & Hood, B. M.
C6. Object Permanence and Knowledge of Number in 5.5- and 10-Month-Old Infants
   Shinskay, J. L. & Bogartz, B. R.
C7. The Relation Between Locomotor Experience and Object Search Skills at 8.5 Months of Age
   Bell, M. A.
C3. Predicting Object Permanence Performance at 8 Months of Age: The Contributions of Frontal EEG and Locomotor Experience
   Bell, M. A.
C9. The Effect of Number of Pre-Switch Trials on 2-Year-Olds’ Perseveration in a Multi-Step Multi-Location Search Task
   Marcovitch, S. & Zelazo, P. D.
C10. Stage 6 Object Permanence in Chimpanzees, Orangutans, and 18-Month-Old Human Children
    Call, J. & Tomasello, M.
B1-4 PRE-LINGUISTIC COMMUNICATION
B1. The Coordination of Early Vocalizations and Facial Actions in Infants 3 and 6 Months of Age
   Yale, M. E., Messinger, D. S., Oller, D. K. & Fullmer, C. E.
B2. Coordination of Infant Behaviors in Response to Parental Still-Face
   Fullmer, C. E., Messinger, D. S., Eilers, R. E. & Yale, M. E.
B3. The Development of Infant Positive Vocalization in Early Infancy
   Hsu, H.-C., Fogel, A., Cooper, R., Nwokah, E. & Messinger, D. S.
B4. Infant Vocal Responses Are Conditioned Both by Maternal Imitation and Motherese Speech
   Pelayo-Nogueras, M., Gewirtz, J. L. & Markham, M. M.

D1-8 SEMANTIC AND PHONETIC CHARACTERISTICS OF EARLY WORDS
D1. The Composition of Children's Early Lexicons as a Function of Age and Vocabulary Size
D2. The Message Is in the Melody: Intonational Contour and Language Acquisition Style
   Dixon, W. E. Jr., Hammond, M., Yamaguchi, M. & Smith, P. H.
D3. Stylistic Differences in Early Language Acquisition: Influences from Cognitive and Social Domains
   Younger, B. & Goffman, L.
D4. Auditory Word Priming in Young Children
   Church, B. & Fisher, C.
D5. First Words: Lexical and Phonetic Aspects
   McCune, L. & Vihman, M. M.
D6. A Grammar of the Pre-Syntactic Stage in the French Language: Preliminary Findings
   Konopczynski, G.
D7. Don't Throw Out Directives!: Re-Interpreting the Relationship Between Language Input and Output
   Rehill, J. L., Heberie, J. F., Hirsh-Pasek, K. A. & Golinkoff, R. M.
D8. Pitch-Related Contrasts in Child Directed Language: A Case Study During the First Year of Life
   Reissland, N.

E1-10 PARENTAL PERCEPTIONS OF INFANTS
E1. Maternal Perceptions of Efficacy in the Nurturing Role from the Last Trimester of Pregnancy to 16 Months
   Postpartum: Associations With Infant Characteristics
   Porter, C. L., Bryan, Y. E. & Walls, M. E.
E2. Predicting the Quality of Parenting from Mother-Toddler Coping Patterns
   Crnic, K., Spritz, B. L. & Belsky, J.
E3. Adult Response to Infant Affect: Factors Influencing Response
   Blokland, K., Goldberg, S., Benoit, D. & MacKay, S.
E4. Mothers' Knowledge About Progressions in Early Play and Language: Interrelations and Short-Term Reliability
   Cross, L. C. & Bornstein, M. H.
E5. Caregiver Interpretation of Infant Behavior
   Baird, S. & Peterson, J.
E6. Cochran & Brassard Revisited: An Empirical Look at the Direct and Indirect Influences of Social Network
   Involvement
   Solomon, M. J. & Marshall, N. L.
E7. Mothers' Self-Descriptions of Their Experiences Talking to Their Infants in the First Four Months of Life
   Abraham, J. L. & Cooper, R. P.
E8. Effect of Family Functioning on Parental Informant Agreement
   Baltaxe, J. T., Hayden, L. C., Roach, C. J., Schiller, M., Dickstein, S., Sameroff, A. J. & Seifer, R.
E9. Mothers' and Fathers' Perceptions of Infant Temperament Across Time
   Jones, L. C. & Heermann, J. A.
E10. Parents' Representation of Their Babies in the First Year of Life: A Longitudinal Comparison Between Mothers
    and Fathers Using the Semantic Differential
    Lis, A. & Zennaro, A.

F1-8 LEARNING AND INTENTIONAL ACTION
F1. Observation Learning in 6- and 12-Month-Old Infants
   Weir, C. G., Bacchus, C., Schneider, J. & Rael, J.
F2. Independent Paths in the Development of Infants’ Learning and Forgetting
Howe, M. L. & Courage, M. L.
F3. Effects of Pre-Training on the Visual Discrimination Learning of 3-Month-Old Infants
Carter, K. A., Mitchell, D. W., McCollam, K. M. & Beatty, K. E.
F4. The Ontogeny of Intentionality: Evidence from a Cross-Limb Learning Paradigm
Chen, H.
F5. Problem Solving 1-2-3: 1- to 2-Year-Olds’ Spontaneous and Cued Solutions
F6. Developing Teleological Skills During Infancy: Intentions in Means-Ends Tasks
Boudreau, J. P. & Bushnell, E. W.
F7. Young Infants’ Sensitivity to Movement Information Specifying Social Events and Intentionality
Carpenter, M., Morgan, R. & Rochat, P.
F8. Understanding of Intentional Versus Accidental Actions in 14- to 18-Month-Old Infants
Carpenter, M., Akhtar, N. & Tomasello, M.

G1-10 INFLUENCES ON PARENT/CHILD INTERACTION
G1. Qualitative Changes in Maternal Touch as a Function of Instructional Condition During Face-to-Face Social Interactions
G2. Mother-Infant Face-to-Face Interactions in the Presence or Absence of a Toy
Stack, D. M. & Colburne, K. A.
G3. Infant Sensitivity to Manipulations of Maternal Touch: 5.5-Month-Olds’ Responses During Touch-Only Face-to-Face Interactions
Arnold, S. L. & Stack, D. M.
G4. Cardiac-Somatic Coupling During a Disrupted Social Interaction
Lalley, N. M., Robertson, S. S. & Reznick, M.
G5. Physiologic Predictors of Mothers’ Behavior With Their Infants
Parks, P. L., Milligan, R. & Lenz, E. R.
G6. Mothers’ and Fathers’ Songs to Infants
Trehub, S. E., Hill, D. S. & Xamensky, S. B.
G7. Relationship Between Observations of Mother-Infant Interactions and Maternal Ratings of Infant Temperament and Parenting Stress
Pickens, J., Hansen, R., Rieppi, R. & Quale, C.
G8. Effects of a Still-Face and Singing Condition on Mother-Infant Interactions
Pickens, J., Rieppi, R., Quale, C. & Hansen, R.
G9. Links Between Maternal Self-Efficacy and Infants’ Behavior During the Still-Face Procedure
Spinrad, T. L.
G10. The Role of Self-Efficacy in Maternal Vocal Responsiveness
Barratt, M. S., Roach, M. A., Morgan, K. M. & Johnson, E.

H1-8 INTERPERSONAL CONTINGENCY
H1. Infants’ Sensitivity to Interpersonal Contingency: An Attempt to Replicate Murray and Treharven
Marian, V., Neisser, U. & Rochat, P.
H2. Whose Gaze Will Infants Follow: Features that Elicit Gaze-Following in Twelve-Month-Olds
Johnson, S., Slaughter, V., Collins, K., Tyan, I. & Carey, S.
H3. Infant Social Responses: Reciprocal Communications or Stimulus-Controlled Behaviors
Caron, A., Roberts, J., Brooks, R. & Butler, S.
H4. Infant Joint Attention: Cued Orienting or Implicit Theory of Mind
Caron, A., Krakowski, O. & Liu, A.
H5. 5-Month-Olds’ Sensitivity to Adult Eye Direction in Dyadic Interactions
H6. Affective Sharing: Origins in 8-Month-Old Infants’ Smiles
Jones, S. S. & Hong, H-W.
H7. A Preliminary Study of 2-Year-Olds’ Joint Attention During a Conflict-Inducing Task
Blackburn, E., Ng, J., Echter, M., Schwartz, L. & Raver, C.
II-10 ATTACHMENT: PARENTAL PERSPECTIVES
I1. Multiple Attachment Relationships in the Family
Rosen, K. & Burke, P.
I2. Similarities and Differences in Maternal and Observer Use of the Attachment Q-Sort
I3. Maternal Attachment Cognitions in Relation to Maternal Sensitivity and Mother-Infant Attachment
Gleason, K. E., Pederson, D. R., Moran, G. & Bento, S.
I4. A Comparison of Mothers’ and Fathers’ Responses on the Attachment Q-Sort
Wille, D. E.
I5. Attachment in Relation to Parenting Stress and Temperament: Longitudinal Effects from 10 to 18 Months
I6. Stress, Social Support and Attachment in a Mexican-Origin Population
Zepeda, M., Santos, L. & Nevarez, F.
I7. Attachment Concordance Among First- and Second-Born Siblings and Their Mothers
Berger, S. P.
I8. Maternal and Paternal Responsiveness and the Subsequent Attachment Relationship
Waters, C. A. & Pratt, M.
I9. Father-Infant Attachment: Paternal, Marital, and Infant Contributions
McHale, J. L., Mangelsdorf, S. C., Frosch, C. A., Diener, M. L., Greene, C. A. & Erb, G. E.
I10. Infant-Mother Attachment and Affective-Cognitive Information Processing
Spritz, B. L., Belsky, J. & Crnic, K.

J1-8 FACE PERCEPTION
J1. Effects of the Height of a Face’s Internal Features on Adults’ Aesthetic Ratings and 5-Month-Olds’ Looking Times
Geldart, S. & Maurer, D.
J2. The Relationship Between Age-Related Changes in Face Scanning Patterns of One- and Two-Month-Old Infants and Their Processing of the Observed Facial Features
Shafaie, S. M. & Self, P. A.
J3. Newborn Preferential and Discriminatory Behavior Toward Face-Like Stimuli
J4. Face Preference in Newborns Is Temporal-Nasal Asymmetrical
Simion, F., Valenza, E., Umiltà, C. & Mori, S.
J5. Inversion Affects Infants’ Event-Related Potential and Looking Time Responses to Facial Expressions of Emotion
de Haan, M. & Nelson, C. A.
J6. Person-Object Differentiation and Visual and Auditory Self-Recognition in Five- and Eight-Month-Old Infants
Legerstee, M.
J7. Mothers Show Special Facial Expressions When Interacting With Their Infants
Werker, J. F. & Chong, S.
J8. The Role of the Face in Perception of Infant Sounds: A First Look
Irwin, J. R., Green, J. R., Gustafson, G. E. & Ostroff, W.

K1-9 IMITATION AND MEMORY FOR EVENTS
K1. What Is the Impact of Knowing that a Rose Is a Rose: Effects of Verbal Information on Young Children’s Recall of Events
West, T. A. & Bauer, P. J.
K2. The Tortoise and the Hare: Predictive Relations Between Later and Early Recall
Carver, L. J. & Bauer, P. J.
K3. When a Picture Is Almost Like Being There: Effects of Medium of Experience on 20-Month-Olds’ Recall
van Brederode, T. M. & Bauer, P. J.
K4. Deferred Imitation by 6- and 9-Month-Old Infants: Evidence for Declarative Memory
Collie, R. & Hayne, H.
K5. The Effects of Live and Videotaped Models on Imitation in Infancy
   Barr, Rachel & Hayne, H.
   Barr, Rachel & Hayne, H.
K7. Developmental Changes in Generalization: Implications for Memory Development
   Bouface, J., Barr, Rachel, MacDonald, S. & Hayne, H.
K8. Practice Makes Perfect? The Effect of Event Structure on Elicited and Deferred Imitation
   Hayne, H. & Barr, Rachel
   Molnár, P. & Nagy, E.

L1-8 CAREGIVER INTERACTIONS WITH HIGH RISK INFANTS
L1. The Effects of a Comprehensive Early Intervention Program on the Quality of Mother-Child Interaction With
   Low Birth Weight, Premature Infants
   Wedeen, A., Fewell, R. R. & Claussen, A. H.
L2. A Descriptive Study of Caregivers of Cocaine-Exposed Infants
   Collins, M. D., Mundy, P. C., Claussen, A. H. & Scott, K. G.
L3. Ramifications of Foster Placement for Substance-Exposed Infants
   Kuecks-Morgan, R. & Bigsby, R.
L4. Fathers' Vocal Interactions With Their Young Children With Down Syndrome
   Roach, M. A. & Barratt, M. S.
L5. Individual Differences in the Interactions Between Mothers and Their Two-Year-Olds With Disabilities
   Spiker, D., Boyce, G. C. & Price, C.
L6. Psychosocial Disability in the Pediatric Care Population
   Estroff, D. B. & Bernal, P.
L7. Caregiver Matching in Deaf and Hearing Mother-Infant Dyads
   Koester, L. S., Forest, S. & Kuka, M.
L8. Anxiety in the Antenatal Clinic: A Pilot Study of the Risks and Benefits of Screening for Renal Abnormalities
   and Choroid Plexus Cysts
   Amick, J. H., Dewit, O., Rennie, J., Richards, M., Hackett, G. & Bishop, S.

M1-5, N1-4 PREDICTING INTELLECTUAL FUNCTION
M1. Predictive Validity of Infant Recognition Memory and Processing Speed to 7-Year IQ in an Inner-City Sample
   Jacobson, S. W., Chiodo, L. M. & Jacobson, J. L.
M2. Concurrent and Predictive Validity of Cognitive and Parenting Measures in a 26-Month Disadvantaged Sample
   Kaplan-Estrin, M., Chiodo, L. M., Jacobson, S. W. & Jacobson, J. L.
M3. Stability and Prediction in Children's Solitary Play and Attention Across the First Two Years
   Damast, A. M., Tamis-LeMonda, C. S., Fox, T., Bornstein, M. H.
M4. Relationships Between Measures of Visual Habituation and Paired-Comparison Procedures, and Measures of
   Development (BSID) With Infants at 2, 4, and 6 Months of Age
   Bonin, M., Malcuit, G. & Pomerleau, A.
M5. Attention Duration and Shift Rate at 5 Months Predict Errors of Commission in a Continuous Performance Test
   at 6 Years
   Ruddy, M. G. & Siessel, P.
N1. Why Do Infant Attention Patterns Predict Later Intelligence? A Longitudinal Look from Birth to 18 Years
   Sigman, M., Cohen, S. & Parnelee, A. H.
N2. Infant Auditory Discrimination as a Predictor of 12-Year Intelligence and Attention
   O'Connor, M. J.
N3. The Movement Assessment of Infants (MAI) as a Predictor of 24-Month Outcome for Non-NICU At-Risk Infants
N4. Infant Novelty Preference in Relation to Toddler Language and Symbolic Play in a Finnish Longitudinal Study
FRIDAY, APRIL 19TH
2:30 PM - 4:00 PM
Narragansett Ballroom A

Invited Address
19IA2 SOLVING THE CHILD CARE CRISIS
Edward Zigler
Chair: Sarah L. Friedman

FRIDAY, APRIL 19TH
2:30 PM - 4:30 PM
RICC 552

Invited Symposium
19IS4 INFANT ATTENTION DEVELOPMENT: PERSPECTIVES FROM COGNITIVE NEUROSCIENCE
Organizer: John E. Richards
Neurocognitive Mechanisms of Visual Orienting in Infants
Mark H. Johnson
Visual Orienting in Young Infants
Bruce M. Hood
Smooth Pursuit and Saccadic Tracking Eye Movements Are Affected by Attention in Young Infants
John E. Richards & Pelecia Holley
Discussants: John Colombo, Louise Hainline, Charles A. Nelson & Holly A. Ruff

Submitted Symposium
Bristol/Kent

19SS7 THE CULTURAL ORGANIZATION OF INFANCY: A COMPARISON OF PUERTO RICAN, CENTRAL AMERICAN, AND ANGLO-AMERICAN MOTHERS
Organizer: Robin L. Harwood
Cultural Beliefs and Maternal Expectations Regarding Normal Infant Development
Lee Pachter & P. H. Dworkin
Central and Euro-American Mothers' Evaluations of Infant Behavior in Everyday Contexts
Birgit Leyendecker, Axel Schoelmerich, Michael E. Lamb & Robin L. Harwood
Feeding and Social Play as Culturally Organized Activities Among Middle-Class Puerto Rican and Anglo Mothers and Their Infants
Robin L. Harwood, Axel Schoelmerich, Pamela Schulze, Stephanie Wilson & Eugenio Ayala
Discussant: Cynthia Garcia Coll

Discussion Session
Newport/Washington

19DS6 PEDAGOGY IN DEVELOPMENTAL SCIENCE: GENERATING STUDENT EXCITEMENT ABOUT RESEARCH
Organizer: J. Paul Boudreau
J. Paul Boudreau, University of Prince Edward Island
Laura E. Berk, Illinois State University
Patricia J. Bauer, University of Minnesota
Peter Willatts, University of Dundee

Discussion Session
Narragansett C

19DS7 TALK WITH JOURNAL EDITORS
Organizer: James A. Blackman
James A. Blackman,-infants and Young Children
Marc H. Bornstein, Child Development
Carol O. Eckerman, Social Development
Joy D. Ososky, Infant Mental Health Journal
Carolyn Rovee-Collier, Infant Behavior and Development
Philip D. Zelazo, Cognitive Development
Discussion Session
RICC 551
19D88 WHAT HAPPENED TO THE PROVERBIAL BABY AND BATHWATER?: A DISCUSSION OF THE PROS AND CONS OF THE BAYLEY-II
Organizer: Philip Sanford Zeskind
Philip Sanford Zeskind, Virginia Polytechnic Institute
Claire B. Kopp, UCLA
Linda L. LaGasse, Brown University School of Medicine
Claire D. Coles, Georgia Mental Health Institute
Michael Lewis, Robert Wood Johnson Medical School
Bernard Z. Karmel, NYS Institute for Basic Research in Developmental Disabilities
Robert Arndt, Case Western Reserve School of Medicine

Discussion Session
RICC 550
19D89 CONCEPTIONS OF INFANCY IN THE HISTORY OF DEVELOPMENTAL PSYCHOLOGY AS A SCIENCE AND PROFESSION
Organizer: Thomas C. Dalton
Thomas C. Dalton, California Polytechnic State University
William Kessen, Yale University
Jerome Kagan, Harvard University

Submitted Symposium
Providence Ballroom
19S88 SEPARATION AND ATTACHMENT IN THE 90'S: ENDURING QUESTIONS FROM A CONTEMPORARY PROSPECTIVE
Organizer: Carol George
The Effects on Attachment of Overnight Visitation in Divorced and Separated Families
Judith Solomon & Carol George
Evolution of New Attachments For Infants in Foster Care
Mary Dozier & K. Chase Stovall
Attachment and Indiscriminately Friendly Behavior in Romanian Adoptees
Susan Goldberg, Robert S. Marvin, Ruwa Sabbah & Sharon Marcovitch
Discussant: Abraham Sagi

Submitted Symposium
RICC 553
19S89 BEYOND HIGH RISK: CLINICAL DISORDERS OF INFANCY
Organizer: Charles H. Zeanah
Management of Feeding Disorders of Infancy
Diane Benoit
Attachment Disorders in Infancy
Neil W. Boris
Post-Traumatic Stress Disorder
Michael Scheeringa
Discussant: Charles H. Zeanah

FRIDAY, APRIL 19TH
4:30 PM - 5:30 PM

Invited Address
Narragansett Ballroom AB
19A3 PROFOUND EARLY DEPRIVATION AND LATER SOCIAL RELATIONSHIPS IN EARLY ADOPTEES FROM ROMANIAN ORPHANAGES FOLLOWED AT AGE 4
Sir Michael Rutter
Chair: Arnold J. Sameroff
SPONSORED BY: The Sengstack Foundation for Early Childhood
FRIDAY, APRIL 19TH
6:00 - 7:00 PM

ISIS BUSINESS MEETING

FRIDAY, APRIL 19TH
7:30 PM - 11:30 PM

GALA DINNER

Providence Ballroom

Narragansett Ballroom AB
SATURDAY, APRIL 20TH
8:30 AM - 9:50 AM

Invited Symposium
20IS1 WAIMH SYMPOSIUM: MULTICULTURAL ISSUES IN INFANCY RESEARCH
Organizer: Hiram E. Fitzgerald
Cultural Competence and Infancy Research: Overview
Hiram E. Fitzgerald
Research on African American Infants: Unraveling the Cultural Matrix
Suzanne M. Randolph & Karen Watkins-Lewis
The Research Team: Developing Research Partnerships to the Hispanic Community
Mary Lou de Leon Siantz
Methods That Bind and Blind: Lessons From Infant Research in Puerto Rico
Cynthia García Coll, María Valcarcel, Leslie F. Halpern, Elaine Mayer & Richard Riston
Discussant: Tiffany Field

Invited Symposium
20IS2 INFANT CHILD CARE AND ATTACHMENT SECURITY: RESULTS OF THE NICHD STUDY OF EARLY CHILD CARE

The NICHD Early Child Care Research Network:
Mark I. Appelbaum, Dee Ann Batten, Jay Belsky, Cathryn L. Booth, Robert H. Bradley, Celia A. Brownell,
Bettye M. Caldwell, Susan B. Campbell, Alison Clarke-Stewart, Jeffrey F. Cohn, Martha J. Cox, Kaye Feardt,
Sarah L. Friedman, Kathryn A. Hirsh-Pasek, Aletha C. Huston, Bonnie K. Knake, Nancy L. Marshall,
Kathleen McCartney, Marion C'Brien, Margaret T. Owen, Deborah A. Phillips, Susan J. Spieker, Deborah L.
Vandell, Marsha Weirnraub
Discussant: Eleanor E. Maccoby

Submitted Symposium
20SS1 THE STUDY OF EMOTIONS IN NON-VERBAL ORGANISMS
Organizers: Kim A. Bard & Connie L. Russell
Development of Emotional Expressions in Young Chimpanzees: The Influence of Early Experience and Individual Differences
Kim A. Bard
Social Referencing by Young Chimpanzees
Connie L. Russell, Kim A. Bard & Lauren B. Adamson
Long Lasting Effects of Prenatal Stress on Emotional Regulation in Juvenile Rhesus Monkeys
A. Susan Clarke & Mary L. Schneider
Discussant: Ross A. Thompson

Submitted Symposium
20SS2 THE BEST START FOR PARENTS AND INFANTS: REINTRODUCING DOULA SUPPORT TO CONTEMPORARY OBSTETRICS
Organizer: John H. Kennell
Companionship in Labour and Adjustment to Parenthood
Beverley Chalmers, Justus Hofmeyr, James McIntyre, Wendy L. Wolman, Szylvia Csosz & Cheryl Nikodem
Providing a Doula For Middle-Class U.S. Families During Labor
John H. Kennell & Susan K. McGrath
Submitted Symposium

20S3 PARLEZ-VOUS PART H?: INFANCY RESEARCHERS AND EARLY INTERVENTION
Organizer: Barbara J. Myers
The Basics on Part H and Early Intervention, and the Role of Developmental Psychologists
Barbara J. Myers & Lisa R. Grinde
Psychologists and Part H: A Partnership Long Overdue
Paula A. Scheye, Lynda Evans, Jeanne N. Laliberte, Melissa A. O’Connell, Christine D. Reiner & Douglas M. Teti
Delivering Family-Focused and Culturally Competent Services in Early Intervention
Lisa R. Grinde & Barbara J. Myers
Discussant: Eleanor Szanton

Submitted Symposium

20S4 FAMILIES AND DEVELOPMENTAL RISK
Organizer: Ronald Seifer
Family Functioning, Infant/Toddler Outcomes, and Parental Psychopathology
Ronald Seifer, Arnold J. Sameroff, Susan Dickstein, Lisa C. Hayden & Masha Schiller
Family Process and Child Outcomes in a Psychiatric Sample: A Narrative Assessment
Susan Dickstein, Martin St. Andre, Arnold J. Sameroff, Ronald Seifer, Masha Schiller & Tyler Smith
Longitudinal Examination of Parental Psychopathology and Family Functioning in Families With Young Children
Lisa C. Hayden, Masha Schiller, Susan Dickstein, Ronald Seifer & Marilyn Matzko
Discussants: Arnold J. Sameroff & Susan B. Campbell

Submitted Symposium

20S5 SOCIAL AND NONSOCIAL BEHAVIORS OF CHILDREN WITH AUTISM
Organizer: Rosalie Corona
Behavioral Responses to the Distress of Others by Children With Autism
Rosalie Corona, Cheryl Dissanayake, Shoshana Arbelle & Marian Sigman
On the Nature of Deficits in Empathy in Autism
Geraldine Dawson, Andrew N. Meltzoff, Julie Rinaldi & Julie Osterling
Pre-Linguistic Vocalizations and Social Directedness in Autistic, Developmentally Delayed and Typical Toddlers
Catherine Lord, Pamela C. DiLavorge, Andrea Pickles, Mary Jane Elliot, Carboline Hellriegel, Sandra Arnold & Laurent Tao
Discussant: Marian Sigman

SATURDAY, APRIL 20TH
8:30 AM - 11:30 AM

Poster Session (20S1)

A1-5 WORD MEANING
A1. Twelve-Month-Old Infants Represent Sortals More Specific than Object: Further Evidence from Reaching
Xu, F., Carey, S., Raphaelidis, K. & Ginzburgsky, A.
A2. The Principle of Mutual Exclusivity as a Universal Constraint on Word Meaning by 21- to 24-Month-Old Korean Infants
Ghim, H.-R. & Park, H.-J.
A3. The Mutual Exclusivity and N3C Principles: Which One Is Honored First?
Frank, I., Poulin-Dubois, D. & Gagnon, M.
A4. Fast-Mapping in 18-Month-Old Infants
Graham, S. A. & Poulin-Dubois, D.
A5. A Little Language Hurts a Lot: Productive Vocabulary and Nonverbal Recall in 16- to 20-Month-Olds
Schwade, J. A. & Dropik, P.
NEWBORN PERCEPTION

B1. Newborns' Responsiveness to Whispered Voices
   Freeman, M. S. & Spence, M. J.

B2. Newborn Response to Auditory Stimulation as a Function of Postural Tilt and State
   Ecklund-Flores, L., Fifer, W. P., Gilliom, M. B. & Gibbs, C.

B3. Facial Behavior During Sustained Visual Fixation in Newborn Infants
   Dondi, M., Simion, F. & Candiolli, S.

B4. Flexibility of Visual Activity in Relation to Head Participation in Full-Term Neonates and Young Infants
   Carchon, I.

DEVELOPMENT OF PARENT/CHILD INTERACTION

C1. Patterns of Joint Attention: A Comparative Study of Children at 12, 24, and 36 Months of Age
   McDonell, J., Henry, M., Broughton, B. & Gahan, D.

C2. Profiles of Maternal Interaction: Stability Across the First Two Years
   Baumwell, L., Tamis-LeMonda, C. S., Suttler-Abrerer, S., Ferdinand, G. & Bornstein, M. H.

C3. Relation Between Cyclicity and Regulation in Mother-Infant Interaction at 3 and 9 Months and Cognition at Two Years
   Feldman, R., Greenbaum, C. W., Yirmiya, N. & Mayes, L. C.

C4. The Development of Infants' Responding During Contingent Social Interactions
   D'Entremont, B. & Muir, D. W.

C5. Precursors of Shared Attention in Young Infants
   Hains, S., D'Entremont, B. & Muir, D. W.

C6. Infant Preferential Looking: Face-Voice Synchrony Versus Affect
   Cao, Y., Hains, S. & Muir, D. W.

C7. Relative Effectiveness of Two Models of Interpersonal Contingency for the Prediction of Conventional Measures of Infant Development
   Crown, C. L., Flaspohler, D. C., Jaffe, J., Feldstein, S., Beebe, B. & Jasnow, M.

C8. Social Referencing and Mood Modification in 1-Year-Olds
   Stenberg, G. & Hagekull, B.

C9. Isn't this the Same Scary Toy We Discussed Before? Enduring Effects of Social Referencing
   Urbano, I. C., Walden, T. A. & Carpenter, K. L.

C10. Co-Variation in Neonatal Autonomic and Affective Behavior Patterns Associated With Mother-Infant Interactions Across the First 2 Years
   Hofheimer, J. A., Porges, S. W. & Lewis, M. H.

UNIMANUAL AND BIMANUAL REACHING

D1. The Sequential Organization of Bimanual Actions in Infant Toy Play
   Kimerle, M., Kotwica, K. & Michel, G. F.

D2. Reaching for Objects of Different Size and Texture in 5- to 9-Month-Olds
   Corbetta, D.

D3. The Development of Functional Reaching in Infants
   McCarty, M. E., Clifton, R. K. & Collard, R. R.

D4. Landmark Use by Infants in a Reaching Task
   Lockman, J. J. & Dai, B.

D5. Visuomotor Coordination in Infancy: Reaching for a Moving Object Under Different Conditions of Occlusion
   Robin, D. J.

D6. Inhibitory Control and Visually Guided Detour Reaches
   Noland, Y. S.

D7. Infant Reaching Is Truly Predictive and Based on an Inertia-Like Principle at 6 Months of Age
   Vishton, P. M., Spelke, E. S., von Hofsten, C., Feng, Q. & Rosander, K.

D8. Speed of Infant Reaching During the First Year: Confirmation of a Prediction
   Berthier, N. & McCarty, M. E.

CAUSALITY, ANIMACY, AND THEORY OF MIND

E1. Infant Perception of Reaction at a Distance
   Schlottmann, A. & Surian, L.
E2. The Animate-Inanimate Distinction in Infancy: Sensitivity to Distinctions Between Social Interactions and Object Manipulations
   Molina, M., Spelke, E. S. & King, D.

E3. Can One-Year-Olds Infer the Goal of an Action Without Seeing it Achieved?
   Csibra, G. & Gergely, G.

E4. Inferring Hypothetical States of Affairs on the Basis of the Rationality Assumption in Infancy
   Biró, S., Gergely, G., Csibra, G. & Kóos, O.

E5. Infants' Understanding of Desires
   Poulin-Dubois, D. & Tilden, J.

E6. Do 10-Month-Old Infants Individuate Objects on the Basis of the Person/Inanimate Object Distinction?
   Sorrentino, C. M., Xu, F. & Carey, S.

E7. Infants' Conceptual Understanding of Agent and Patient
   Redford, M. A. & Cohen, L. B.

E8. Self-Propelled Motion and Animacy as Stepping Stones to a Theory of Mind: Experiments With Non-Human Primates
   Hauser, M.

F1-8 WORD LEARNING: LABELS FOR OBJECTS AND ACTIONS

F1. Ostensive Naming in Face-to-Face Interaction: The Role of Speaker Gaze
   Schmidt, C. L.

F2. The Influence of Language Labels on Infants' Ability to Discriminate Between Pushing and Pulling
   Casasola, M. & Cohen, L. B.

F3. Ursines and Felines: Novel Words Support Object Categorization in 9-Month-Old Infants
   Waxman, S. R. & Balaban, M. T.

F4. Learning of Arbitrary Vowel-Object Relations by 7-Month-Old Infants
   Gogate, L. J. & Babrick, L. E.

F5. Infants Infer Agents' Intentions to Learn the Meaning of New Words
   Forbes, J. N. & Poulin-Dubois, D.

F6. The Acquisition of Word-Object Associations in 14-Month-Olds: Does Phonetic Similarity Make a Difference?
   Stager, C. L. & Werker, J. F.

F7. Prosody Influences Meaning: Fifteen-Month-Olds Interpret a Novel Word as an Action
   Koenig, P. L. & Naigles, L. R.

F8. A Pragmatically Natural Assessment of Early Noun Comprehension
   Arriaga, R. I., Xu, F. & Carey, S.

G1-8 REPRESENTATION AND SYMBOLIC RELATIONS

G1. Not Picture-Perfect: Young Children's Use of a Picture as a Symbol for Themselves
   Smith, C. M. & DeLoache, J. S.

G2. The Medium Can Obscure the Message: Understanding the Relation Between Video and Reality
   Troseth, G. & DeLoache, J. S.

G3. Understanding the Object of a Picture
   Pierrouxakos, S. & DeLoache, J. S.

G4. Representing and Coordinating Multiple Relations in Symbolic Tasks
   Marzolf, D. P. & DeLoache, J. S.

G5. Transfer of a Symbolic Relation by Young Children
   Marzolf, D. P., Pacha, P. & DeLoache, J. S.

G6. A Process for Spatial Representation and Reorientation in Infants, Adults, and Non-Human Mammals
   Hermer, L. & Spelke, E. S.

G7. Object and Event Representation in 6.5-Month-Old Infants
   Goubet, N. & Clifton, R. K.

G8. The Representation of Objects: Individuation by Feature
   Leslie, A. M., Hall, D. G. & Tremoulet, P. D.

H1-6 AUDITORY PATTERN PERCEPTION

H1. Infants' Recognition of the Paternal Voice: Lack of Preference in Adult-Directed and Infant-Directed Contexts
   Ward, C. D., McCartney, J. & Cooper, R. P.
H2. Infants' Use of Pitch Cues in the Segmentation of Auditory Patterns
   Trainer, L. J.
H3. Consonance and the Perceptual Similarity of Simultaneous Complex Tones
   Schellenberg, E. G. & Trainer, L. J.
H4. Infants' Preferences for Consonance Versus Dissonance and for Major Versus Minor in Music
   Zentner, M. R.
H5. Infants' Pitch Perception: Masking by Low- and High-Frequency Noises
   Rogers, E. C., Clarkson, M. G. & Miciek, S. G.
H6. Infants' Understanding of Auditory Events
   LaGasse, L. L., VanVorst, R., Brunner, S. & Zucker, M.

I1-8 PRETERM AND LOW BIRTH WEIGHT INFANTS: FOLLOW UP
I1. Predicting Performance at 9 Years from Neonatal Characteristics
   Christian, M. K., Holmes, D. L. & Reich, J. N.
I2. Prediction of Motor Function, Sensory Reactivity, and Temperament at Six Months from Perinatal Complications
   Beard, J. E. & Goodman, I. J.
I3. IUGR Infants and Predictors of Delayed Cognitive Functioning: A Short-Term Longitudinal Study
   Benderaky, K., Halpern, L. F. & García Coll, C. T.
I4. Extremely Premature Children's Self-Esteem at 5 Years, 9 Months and IQ at 18 Months and 5 Years, 9 Months
   Wintgens, A., Lepine, S., Plon, C., Gauthier, Y., Glorieux, J., Lefebvre, F. & Robaey, P.
I5. Outcomes of Extremely Low Birth Weight Infants in the Surfactant Era
   Hack, M., Friedman, H. & Fanaroff, A. A.
I6. Determinants of Development in VLBW Infants With IVH After Early Intervention
   Saylor, C. F.
I7. Visual Acuity Outcome in Extremely Low Birth Weight (<1000g) Infants
   Courage, M. L. & Adams, R. J.
I8. Relationships Between Early Assessments and Outcome for Extremely Low Birth Weight Infants
   Lawson, K., Koller, H., Rose, S. A. & McCarton, C.

J1-7 CRYING
J1. Infant Colic and Excessive Crying: Influence on Maternal Cry Perception and Care-Giving
   Boukydis, C. F. Z., Cucca, J. A., Andreozzi, L. M., Brunner, S., Killis, E. & Lester, B. M.
J2. Maternal Characteristics Related to Infant Crying
J3. Mother-Infant Interaction in Infants With Colic
   Andreozzi, L. M., Cucca, J. A. & Lester, B. M.
J4. Effects of Cry Intensity and Contextual Information on Adults' Proposed and Actual Care-Giving Behaviors
   Wood, R. M. & Gustafson, G. E.
J5. Colic and Non-Colic Behaviored Infants: Physiological and Behavioral Responses to a Physical Examination
J6. Women's Attitudes About Infant Behavior Are Related to Perceptions of Infant Cries Varying in Pitch
   Zeskind, P. S., Doty, H. & Marshall, T.
J7. Infant Crying: All-or-None Reporting on Mothers' Cry Logs
   Salisbury, A., Minard, K. & Thoman, E. B.

K1-8 SLEEPING AND STATE REGULATION
K1. Fetal Responsiveness to Controlled Sustained Pressure as a Function of Fetal State
K2. Effects of Direction and Duration of Maternal Passive Motion on Fetal Reactiveness
K3. The Utility of Early Infant State Measures in Predicting Behavior Over the First Year of Age in the Tufted
   Capuchin Monkey (Cebus apella)
   Byrne, G. & Suomi, S. J.
K4. Sleep/Wake States in the Newborn Period and Later Temperament
   Novosad, C. & Thoman, E. B.
K5. Fetal Neurobehavioral Profile: A Measure of Fetal State and Arousal Competency
SATURDAY AM

Gingras, J., O'Donnell, K., Leatherman, N., Donnelly, K., Norton, J. & Gibney, E.

K6. Predictors of Sleep Behaviors from Six to Twenty-Four Months
   Plunkett, T. S., McCartney, K., Weinraub, M., Becker-Hahn, N. & Hauserman, C.

K7. Early Infant Waking Behavior and Parental Response
   Harkins, D., Wolff, P. H., Throckmorton, K. & Chirieleison, M.

K8. Sleep-Wake Activity Patterns and Infant Characteristics in Infants of Gestational Diabetic Mothers
   Vohr, B. R., García Coll, C. T. & Sadeh, A.

L1-4 SOCIAL DEVELOPMENT

L1. A Comparison of Infant-Peer and Infant-Mother Conflicts
   Nash, A.

L2. Patterns of Sibling Interaction
   Burke, P. & Rosen, K.

L3. Toddler-Peer Interactions: Learning and Using Negotiation Strategies
   Luthi, L., Kuersten, R. & McHale, J. P.

L4. Reliability of Ethnic/Racial Classifications for Culturally Diverse Toddler Play Materials
   Karns, J. T. & Moncrief, S.

SATURDAY, APRIL 20TH
10:00 - 12:30 PM

Invited Symposium
20IS3 CONNECTIONIST APPROACHES TO DEVELOPMENT
   Organizer: Kim Plunkett
   Connectionism - Development
      Kim Plunkett
   Computational Modeling of the Emergence of Representations Within Cerebral Cortex
      Mark H. Johnson & Andrew Oliver
   Connectionist Insights Into the Development of Object Permanence
      Denis Mareschal
   Language Learning & Re-Learning: A Connectionist View
      Virginia Marchman
   The Importance of Starting Small: Innate Knowledge Through Developmental Timing
      Jeff Elman
   Discussant: Paul L. Harris

Invited Symposium
20IS4 RECENT RESEARCH USING OPERANT-LEARNING PROCEDURES
   Organizers: Jacob L. Gewirtz & Lewis P. Lipsitt
   Operant Analysis of Speech Perception in Newborns
      Michelle A. Aldridge
   Conditioning and Remembering in Young Infants
      Jeffrey Fagen
   Newborn Auditory Perception as Assessed With an Operant-Learning Procedure
      Angela G. Shoup
   Discussants: Jacob L. Gewirtz & Martha Pelaez-Nogueras

Narragansett Ballroom C

RICC 551
Invited Symposium

20S5 TAKING PERSPECTIVE ON SOCIAL REFERENCING: NEW VIEWPOINTS
Organizer: Ross A. Thompson
Conceptual and Empirical Challenges to Social Referencing Research
Ross A. Thompson
Infants' Early Referential Behavior in Prohibition Contexts: The Emergence of Social Referencing
Marcia Zumbahlen & Alisha Crawley
What Social Referencing Does and Does Not Reveal About Infants' Conception of Mind
Louis J. Moses
Interpersonal Aspects of Social Referencing
Tedra A. Walden
Discussants: Michael Tomasello & Joseph J. Campos

Invited Symposium

20S6 THE USE OF PARENTAL REPORTS: OBSTACLES AND OPPORTUNITIES
Organizer: M. Suzanne Zeedyk
Parent Report in the Study of Temperament
Mary K. Rothbart & John E. Bates
Bases for Maternal Reports of Persistent Infant Crying and Colic
Ian St. James-Roberts, Sue Conroy & Katie Wilsher
Parental Report as a Source of Information About Communicative Development in Infants and Toddlers
Larry Fenson

Submitted Symposium

20S6 INFANT SLEEP: DESCRIPTIONS AND INTERVENTIONS
Organizer: Christine Acebo
Actigraphy as a Method for Obtaining Naturalistic Sleep-Wake Measures
Christine Acebo, Orna Tzischinsky, Avi Sadeh, Abigail Hafer & Mary A. Carskadon
Parent Reports About Sleep Habits of Infants and Toddlers
Ronald Seifer, Susan Dickstein, Anthony Spirito & Judith Owens-Stirely
Daytime and Nocturnal Soothing Techniques: A Developmental Perspective
Avi Sadeh, Christine Acebo & Mary A. Carskadon
Modifications of Planned Ignoring in the Management of Infant Sleep Disturbance: Infant Distress and Parental Acceptability
Karyn G. France & Neville M. Blampied
Discussants: Mary A. Carskadon & Thomas F. Anders

Submitted Symposium

20S7 INFANTS ORIENTING AND ACTING IN SPACE: THE ROLE OF VISUO-SPATIAL INFORMATION
Organizer: J. Gavin Bremner
Advanced Visual Control of Arm Movements in Neonates
Audrey L. H. van der Meer
The Perturbation of the Infant Head Orientation During Reaching
G. J. P. Savelbergh & J. van der Kamp
The Contribution of Visual Flow Information to Spatial Orientation by 6- and 9-Month-Old Infants
J. Gavin Bremner & Frances Hatton
The Calibration of Walking Without Vision and the Early Development of Spatial Orientation
John J. Reiser & Anne E. Garing
Discussant: George Butterworth
SATURDAY AM

Submitted Symposium

20SS8  WHEN DOES "APPLE" MEAN "APPLE"? HOW DO YOUNG CHILDREN INTERPRET OBJECT WORDS?

Organizers: Roberta M. Golinkoff, Susan A. Gelman & Kathy A. Hirsh-Pasek
Changes in the Young Child's Construal of Object Words
Roberta M. Golinkoff, Kathy A. Hirsh-Pasek, Laurette Reeves & Margaret Shuff-Bailey
Why Is a Pomegranate an "Apple"? The Role of Shape, Taxonomic Relatedness, and Prior Lexical Knowledge in
Children's Overextensions
Susan A. Gelman, William Croft, Panfang Fu, Timothy Clausner & Gail Gottfried
Perception and Knowledge in Early Object Naming
Barbara Landau
Stars and Starfish: How Far Can Shape Take Us?
Sandra R. Waxman & Bridgette Braig
Discussant: Lois Bloom

SATURDAY, APRIL 20TH
10:30 AM - 12:00 NOON

Invited Address

20IA1  EXPLORING THE MINDS OF US AND OTHER ANIMALS
Carolyn Ristau
Chair: Kim A. Bard

Narragansett Ballroom A
SATURDAY, APRIL 20TH
12:30 PM - 1:30 PM

LUNCH BREAK

SATURDAY, APRIL 20TH
12:30 PM - 2:00 PM

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SATURDAY, APRIL 20TH
1:30 PM - 3:50 PM

Invited Symposium
Narragansett Ballroom C

20IS7 INFANT CATEGORIZATION RESEARCH: WHERE DO WE GO FROM HERE?
Organizer: Paul C. Quinn
Object Categorization and Object Individuation in Infancy: A Conceptual Distinction
Fei Xu & Susan Carey
Infant Categorization Research: Early Perspectives, Current Issues, and a Future Direction
Paul C. Quinn
Making Sense of Infant Categorization
Lisa M. Oakes & Kelly L. Madole
What Our Various Categorization Tasks Reveal About Infant Representation
Laraine McDonough
Discussant: Susan A. Gelman

Invited Symposium
RICC 554

20IS8 VALIDATED PARENT-INFANT PSYCHOTHERAPY AND PREVENTION PROGRAMS: ARE WE READY?
Organizer: Alice S. Carter
Elements of Effective Programs in Home Visitation
Jon Korfmancher
Community Infant Project: Program Description
Janet Dean
The Community Infant Project: Evaluation and Research
Sandra Pipp-Siegel
Group Therapy For Postpartum Depressed Women: A Manualized Approach
Roseanne Clark
Discussant: JoAnn Robinson
Invited Symposium

20IS9  THE IMPORTANCE OF EARLY EXPERIENCE: A SYMPOSIUM HONORING LEWIS P. LIPSITT

Organizer: Daniel H. Ashmead
Does Early Experience Affect Later Behavior? The Question of Infant Memory
Carolyn Rovee-Collier
Perspectives on Learning and Perception in Infants
Einer R. Siqueeland
Sucking: A Critical Measure and Intervention for Infant Development
Tiffany Field
The Long-Lasting Effects of Early Experience
Rachel K. Clifton
Experiential Influences on Auditory Space Perception
Daniel H. Ashmead

Submitted Symposium

20SS9  THE DEVELOPMENTAL FOUNDATIONS OF THE PERCEPTION AND KNOWLEDGE OF TIME

Organizer: David J. Lewkowicz
1 Time Factors in Infant Expectation
Marshall M. Haith, Scott A. Adler & Tara S. Wass
2 The Temporal Basis for Multimodal Integration
David J. Lewkowicz
3 Infants' Sensitivity to Time-Dependent Information
Martha E. Arterberry
4 Time as an Ally of Memory: The Influence of Temporal Order Information on Very Young Children's Recall of Events
Patricia J. Bauer
5 The Development of Infants' Perceptions of Arrows of Time
William J. Friedman

Submitted Symposium

20SS10  THE CONCEPT OF ATTRACTOR IN INFANT DEVELOPMENT

Organizer: Eugene C. Goldfield
1 Attractors at Different Time Scales in Infant Development
Esther Thelen
2 Attractor Dynamics in Early Infant Sucking and Respiration
Eugene C. Goldfield & Peter H. Wolff
3 Dynamic Systems Theory and Infant Behavior: Promise and Reality
Steven S. Robertson
Discussant: Bruce Ray

Submitted Symposium

20SS11  INFANTS' UNDERSTANDING OF THE PSYCHOLOGICAL BASES OF HUMAN BEHAVIOR

Organizers: Amanda L. Woodward, Dare A. Baldwin & Ann T. Phillips
Young Infants Pay Special Attention to an Actor's Goal
Amanda L. Woodward
Infants' Understanding of the Intentions of Others: Results from a New Paradigm
Andrew N. Meltzoff
The Origins of Joint Visual Attention
Chris Moore
Infants' Tendency to Monitor Others' Gaze: Is it Rooted in Intentional Understanding or a Result of Simple Orienting?
Dare A. Baldwin, Brigitte Bill & Lenna L. Ontai
Infants' Ability to Use Gaze and Emotional Expressions as Predictors of Behavior
Ann T. Phillips

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Submitted Symposium
RICC 551
20SS12 ECOLOGICAL AND COGNITIVIST PERSPECTIVES ON SOCIAL SCAFFOLDING OF EARLY ACTION
Organizer: Julie Rutkowski
Educating Attention: How Gesture Disambiguates Caregiver Messages to Latino and Euro-American Infants
Patricia Zukow-Goldring & Kelly Ferko
Infant Intentionality: Interpreted or Perceived?
M. Suzanne Zeedyk
The Parent as a Systemic Component of Infant Intentionality
Dankert Vedeler
Understanding Knowing in Context
Vasudevi Reddy & Lorraine Simone
A Computational Perspective on Social Scaffolding in Action-Based Knowledge
Julie Rutkowski

Submitted Symposium
RICC 550
20SS13 PHYSIOLOGICAL AND BEHAVIORAL REGULATION OF EMOTION IN INFANCY
Organizer: Kathy Stansbury
Individual Differences in Emotion Regulation Strategies in 8-Month-Old Infants
Sarah C. Mangelsdorf, Marissa L. Diener, Jean L. McHale, Jean Agathen & Leticia Zavaleta
Emotion Regulation/Cortisol Interrelationships in Infancy
Kathy Stansbury, L. K. Zimmermann, L. Sethre-Hofstad, L. R. Chambers & D. R. Sandoval
Psychophysiological Correlates of Emotional Reactivity and Regulation
Cynthia A. Stifter
Maternal Views of Emotional Regulation: Heritability and Temperamental Antecedents in Infancy
H. Hill Goldsmith, N. Aksan, K. S. Lemery, N. Smider, R. Clark, M. Klein & M. Essex
The Development of Anger and Fear Regulation in Infancy
Kristin A. Buss & H. Hill Goldsmith

SATURDAY, APRIL 20TH
1:30 PM - 4:30 PM

Poster Session (20PS2) RICC Ballroom

A1-5 PRETERM INTERVENTIONS
A1. Cognitive Development of Extremely Preterm Infants and Stimulation at Home
van Baar, A.
A2. Enhancing Parenting of Pre-Term Infants With a Video-Assisted Maternal Education Program
Cusson, R. M.
A3. The Influence of Cognition, Play Competence, and Maternal Responsiveness on Home Environment Scores in Low Birth Weight, Premature Infants
Fewell, R. R., Wheeden, A. & Updike, E.
A4. Individualized Care for Premature Infants: Sleep States at Preterm and 3-Month Post Term Ages
A5. An Introductory Curriculum for Medical Students on Issues in Early Child Development and Early Intervention
Thompson, E., Roberts, W. & Rosenfield, J.

E1-4 PSYCHONEUROENDOCRINOLOGY
E1. Salivary Cortisol in Nursery-Reared Rhesus Monkey Infants
Champoux, M., Gunnar, M. R., Boyce, W. T. & Suomi, S. J.
E2. Hypothalamic-Pituitary-Adrenocortical (HPA) Stress Response and Circadian Rhythm in Early Infancy
Larson, M. C., Gunnar, M. R., White, B. P., Hawkins, A. & Hewitt, E.
E3. Health and Illness in Young Children: Associations With Hormonal Stress and Immune Functioning
Campbell, E. K., Gunnar, M. R. & Brodersen, L. A.
B4. **A Preliminary Assessment of Cortisol and Behavior in Young Children: A Look at Instrumentation, Methodology and Diurnal Rhythm of Cortisol Levels**
   Clements, A. D.

C1-8 **MEMORY**

C1. **The Effects of a Video Reminder on One-Year-Olds' Event Memory**
   Sheffield, E. G., Hudson, J. A. & Ryder, M. A.

C2. **When and Why: Children's Use of Temporal and Causal Language to Facilitate Memory**
   White, J. A.

C3. **Short-Term Recognition Memory and Long-Term Recall of Sequences of Events in Nine-Month-Old Infants**
   Ross, A., Carver, L. J. & Nelson, C. A.

C4. **Measuring Infant Memory**
   Bogatz, R. S.

C5. **Infants' Memory for Contingently Responding Persons**
   Bigelow, A. E.

C6. **The Effects of Enhanced Attention in Infant Memory**
   Gerhardstein, P., Adler, S. A. & Rovee-Collier, C.

C7. **Delayed Recognition, Reactivation, and Memory Specificity in an Operant Task at 6 Months**
   Harnish, K. & Rovee-Collier, C.

C8. **Memory for Serial Order at 6 Months of Age**
   Gulya, M. & Rovee-Collier, C.

D1-7 **PARENT/CHILD INTERACTION WITH ABNORMAL INFANTS**

D1. **The Development of the Relationship Between a Deaf Mother and Her Deaf Infant**
   Chovaz, C. J. & Pederson, D. R.

D2. **Temperament and Mother-Child Interaction in Families With Premature Medically Fragile Infants**
   Boyce, G. C., Saylor, C. F. & Alexandrova, E.

D3. **How Toddlers With Severe Visual Impairments and Their Caregivers Respond to Ambiguous Stimuli: A Multiple Case-Study Analysis**
   Recchia, S. L.

D4. **Mutual Responsiveness in Deaf and Hearing Mother-Infant Dyads**
   Koester, L. S., Brooks, L. R. & Traci, M. A.

D5. **Context, Age, and Family System Effects on Interactions of Mothers of Infants With Mental Delay**
   Becker, P. T., Kane, J. & Engelhardt, K. F.

D6. **Mother-Infant Relationships: A Comparison of Interactiveness Within Normal and At-Risk Congenital Heart Defect Dyads**
   Mroz, C., Weissmann, L., Harding, C. & Haag, V.

D7. **Parental Perception of the Emotional Expressions of Sighted and Blind Children**
   Leung, E. H. L.

E1-10 **PRENATAL SUBSTANCE EXPOSURE: FOLLOW UP**

E1. **Attention Regulation in Prenatally Drug-Exposed Infants**
   Ahl, V.

E2. **Non-Verbal Communication, Positive Affect, and Language Development in Cocaine-Exposed 12-Month-Olds**
   Willoughby, J. C., Mundy, P. C., Claussen, A. H. & Scott, K. G.

E3. **Cocaine-Exposed Neonates and Their Mothers: Patterns of Interaction During Feeding**
   Woods, N. S., Eyler, F. D., Behnke, M., Conlon, M., Wobie, K. & Peterson, K. M.

E4. **A Longitudinal Study of Prenatal Cocaine Exposure: 6-Month Outcome**
   Behnke, M., Eyler, F. D., Conlon, M., Woods, N. S. & Wobie, K.

E5. **Language Development of Prenatally Drug-Exposed and Non-Exposed Toddlers at High Social Risk**
   Beagly, M., Brilliant, G., Dyer, N., Park, H., Tronick, E. Z., Rose-Jacobs, R. & Frank, D. A.

E6. **Neonatal CNS Injury, Prenatal Cocaine Exposure, and Perceptual Development: Effects at 4 and 7 Months**
   Freedland, R. L., Karmel, B. Z. & Gardener, J. M.

E7. **Predictors of Decline in Developmental Scores Among Infants Born to Substance-Abusing Women**
   Toth-Sadjadi, S., Olson, H. C. & Hanna, E.
E8. Substance-Abusing Women and Their Young Infants: Early Child Outcome and Sources of Vulnerability
   Olson, H. C., Toth-Sadjadi, S. & Hanna, E.

E9. Performance of Cocaine-Exposed 3-Year-Olds on the Lock Box Task
   Arendt, R., Angelopoulos, J. & Detweiler, S.

E10. Maternal Substance Abuse and Infant Feeding Interactions at Two and Six Months

F1-7 ASSESSING DEVELOPMENTAL DELAY
F1. Evaluation of a Safety Index: Can We Safely Reduce Ophthalmoscopies in ROP-Screening?
   Cats, B. P., Schalij-Delfos, N. E. & Zijlmans, B.
F2. A “New” Bayley and a Coffee to Go: Using Standardized Instruments in Non-Standard Environments to Assess
    Non-Standard, Medically Fragile 16-Month-Olds
   Goldman, B. D., Daniels, J. L., Tesh, E. M. & Brunsson, S.
F3. Sequential Behavioral Analysis of NBAS in the Term and Preterm Infant
   Silva-Haddad, A. M. & Lester, B. M.
F4. The “Behavioral Assessment of Baby’s Emotional & Social Style (BABES)”: A New Screening Tool for Clinical Use
   Finello, K. M. & Poulsen, M. K.
F5. Play as a Window on Child Development
   Lamorey, S. & Eissert, D.
F6. Holistic Assessment of the Multiply Impaired Child: The Special Populations Assessment and Rehabilitation Center
   Schanel-Klitsch, E., Graboyes, M., Ciner, E. B. & Appel, S.
F7. Visual Recognition in the Second Year: A Potential Assessment Technique for Developmentally Disabled Infants
   Montie, J. E., Kaplan, M. & Segal, M.

G1-10 PRETERM AND LOW BIRTH WEIGHT: GENERAL
G1. Personality Correlates of Prematurity Stereotyping
    Weaver, C. M., Karraker, K., Hewitt, S. & Boston, A.
G2. Preterm Infants’ Responses to Aversive Stimuli
    Riese, M. L.
G3. Preterm Infants’ Perception of Auditory Patterns
    Morrongiello, B. A. & Fenwick, K.
G4. An Investigation of Olfactory Responsiveness in Premature Newborns
    Pihet, S., Schaaf, B., Bullinger, A. & Mellier, D.
G5. Naturalistic Parental Touch in the NICU: Developmental Changes in Preterm Infants’ Behavioral and Physiological Responses
    Fearon, I., Harrison, L., Muir, D. W. & Kisilevsky, B. S.
G6. Maturation of Premature Fetal Heart Rate Responses to Airborne Sound
    Allen, C., Kisilevsky, B. S. & Hains, S.
G7. Factors Affecting Growth in VVLBW Infants
    Parker, A., Davis, D. W., Wilkerson, S. A. & Vodicka, P.
G8. Skin Contact Compared to Incubators for Prevention of Heat Loss in Preterm Infants
    Ludington-Hoe, S. M., Swinth, J. & Nguyen, N.
G9. Neurobehavioral Development of Very Low Birth Weight Infants
    Oehler, J., Leung, E. H. L., Eckerman, C. O., Booth, D. & Goldstein, R.
G10. The Relationship Between Bathing, Skin Flora, and the Physiological and Behavioral Responses of Premature Infants
    Zahr, L. K.

H1-4 CHILD CARE EFFECTS ON SOCIAL INTERACTIONS
H1. The Relationship Between Infant Day Care and Children’s Social Behavior at 4 Years of Age
    Creps, C. L. & Vernon-Feagans, L.
H2. Infant and Toddler Communication and Social Interaction With Peers, Teachers, and Objects at Day Care: Strategies, Age Trends, and Awareness of Partner
   Test, J.

H3. The Formation of New Relationships With Alternative Caregivers
   Howes, C.

H4. Conflict in Child Care Settings: Analysis of Child and Teacher Strategies
   Rosenblatt, S. & McDonough, R.

II-9 NEUROBEHAVIORAL DEVELOPMENT

I1. Implications of Muscle Tone Characteristics for Developmental Outcome in At-Risk Infants
   Mandich, M. B., Ritchie, S. K., Simons, C. J. R. & Mullett, M.

I2. Maturation of Human Fetal Behavior: A Psychobiological Perspective
   Kislevsky, B. S., Muir, D. W. & Low, J. A.

I3. Genetic and Environmental Influences on Vagal Tone and Developmental Outcome at Fourteen Months
   Bono, M. A.

I4. Physiological Bases of Early Self-Regulation: The Relationship Between Cardiac Vagal Tone and Infant State Changes
   Turk, N., Stifler, C. A. & Putnam, S. P.

I5. Fetal and Neonatal Bradycardia: Relation to Respiratory Sinus Arrhythmia
   Doussard-Roosevelt, J. A., Reed, S. F. & Forges, S. W.

I6. Infant Patterns of Heart Rate Variability Parallel Emotional Regulation
   Bazhenova, O. V. & Forges, S. W.

I7. Neonatal Reactivity to the Rhythmicity of Maternal and Non-Maternal Heart Beat
   Giovaneli, G., Callegati, I., Farneti, A., Sansavini, A. & Tuzzol, G.

I8. Maternal Estradiol Levels in Relation to Offspring Cognition and Behavior Among First-Borns
   Flannery, K. A. & Liederman, J.

I9. Measurement of Hormonal and Doppler Stress Responses in the Human Fetus
   Glover, V., Giannakoulopoulos, X., Teixeira, J. & Fisk, N.

J1-4 PARENTING IN HIGH RISK ENVIRONMENTS

J1. The Quality of Mother-Infant Interactions in Families at Risk for Maladaptive Parenting
   Krupka, A., Moran, G. & Pederson, D. R.

J2. Getting to Know an Infant by Visitation: The Experience of Incarcerated Mothers
   Tesh, E. M.

J3. Patterns of Coping Among Inner-City Families With Young Children

J4. Raising Children in High Risk Environments: Mothers' Experience of Stress and Distress Related to Attachment Security
   Sims, B. E., Hans, S. L. & Cox, S. M.

K1-8 SUCKING, FEEDING, TASTE, AND SMELL

K1. Olfactory Stimuli as Contextual Cues in Infant Memory
   Rubin, G., Fagen, J., Carroll, M. & Franco, A.

K2. Differential Activation of a "Primitive Feeding System" Between Term and Post-Mature Infants in the Sucrose Calming Test
   Hayes, M. J., Smith, B. A., Roberts, S. M., Swanson, E. & Herrick, S.

K3. Infant-Mother Attachment and Failure-to-Thrive: Malnutrition and Disorganized Relationships

   Hagekull, B., Bohlin, G., Rydell, A.-M. & Mothander, P. R.

K5. Neonatal Sucking and Maternal Feeding Practices
   Ramsay, M. & Gisel, E. G.

K6. Does Breast Fore-Milk Taste Calm Crying 10-Day-Old Infants?
   Barr, R. G., Young, S. N., Gravel, R. G., Alkawaf, R. & Wertheim, L.
K7. Parenting Stressors, Coping Strategies, and Mother-Infant Interactions in Two Groups of Breast-Feeding Mothers
   Jarvis, P., Risley, K. & Creasey, G.
K8. Meta-Analysis of Non-Nutritive Sucking on Heart Rate and Peripheral Oxygenation
   Shiao, S.-Y. P., Chang, Y.-J., Lannon, H. & Yarandi, H.

L1-4 PERCEPTION OF NUMBERS
L1. Discrimination of Simultaneously-Presented Large Number Arrays by 6-Month-Old Infants
   Tan, L. S. C. & Bryant, P. E.
L2. The Quantification of Portions of Non-Solid Substances
   Huntley-Fenner, G. & Carey, S.
L3. Addition in Human Infants and Non-Human Primates
   Ulter, C., Carey, S. & Hauser, M.
L4. Brain Event-Related Potentials as a Measure of Quantity Discrimination in Six-Month-Old Infants
   Leppänen, P., Richardson, U. & Lytinen, H.

SATURDAY, APRIL 20TH
3:00 PM - 4:30 PM

Invited Address
Narragansett Ballroom A
201A2 LANGUAGE AND THE INFANT BRAIN
   Elizabeth Bates
   Chair: Letitia R. Naigles

SATURDAY, APRIL 20TH
4:00 PM - 6:00 PM

Invited Symposium
RICC 555
201S10 IN UTERO COCAINE EXPOSURE AND INFANT DEVELOPMENT: PAST FINDINGS, NEW FINDINGS, AND CLINICAL IMPLICATIONS
   Organizer: Edward Z. Tronick
   Prenatal Cocaine Exposure and Child Outcome: What Do We Really Know?
   Barry M. Lester, Linda L. LaGasse & Susan Bruner
   Effects of Prenatal Cocaine Exposure on Infant Neurobehavioral and Motor Functioning
   Edward Z. Tronick, Linda Fetters & Deborah A. Frank
   Effects of Prenatal Drug Exposure on Infant: Affect Regulation, Social Interaction, and Play
   Marjorie Beeghly, Karen Olson, Edward Z. Tronick & Deborah A. Frank
   Discussant: Linda Wright

Invited Symposium
RICC 554
201S11 GROUP CHILD CARE FOR INFANTS: MAKING CONNECTIONS BETWEEN POLICY AND RESEARCH
   Organizer: Susan D. Holloway
   Quality in Child Care Centers: Findings From the Cost, Quality and Child Outcomes Study of Child Care Centers
   Mary L. Culkin
   In the Service of Public Health Policy: NICHD's Supported Research in the Area of Child Care
   Sarah L. Friedman & Kimberly Boller
   Disentangling Family and Policy Determinants of Child-Care Supply and Quality
   Bruce Fuller
   The Long-Term Effects of Nonparental Care Arrangements on the Development of Swedish Children
   Michael E. Lamb
Invited Symposium
20IS12 THE NEUROBEHAVIOR OF CONSCIOUSNESS: HISTORICAL AND CONTEMPORARY VIEW OF INFANCY
Organizers: Thomas H. Dalton & Victor W. Bergenn
John Dewey, Myrtle McGraw, and the Ontogeny of Consciousness
Thomas C. Dalton
The Ascent of Consciousness
Philip R. Zelazo & Philip D. Zelazo
Discussants: William Kessen & Emily Cahan

Invited Symposium
20IS13 ENVIRONMENTAL AND PSYCHOBIOLOGICAL FACTORS IN SIDS
Organizers: James J. McKenna & Lewis P. Lipsitt
Infant-Parent Bedsharing and SIDS Prevention: Recent Research Advances
James J. McKenna
Developmental Delay, Learning Deficiency, and the Risk of SIDS: A Neurobehavioral Hypothesis
Lewis P. Lipsitt
Environmental Facilitation for Vulnerable Infants
Evelyn B. Thoman
Discussant: Lewis A. Leavitt

Discussion Session
20DS1 PERSPECTIVES ON AUTISM
Organizer: Victor D. Sanua
Victor D. Sanua, St. John's University
Gerald Groden, Groden Center, Providence, Rhode Island
June Groden, Groden Center, Providence, Rhode Island
Deborah Fein, University of Connecticut
Lynn Waterhouse, University of Connecticut
Cheryl Trepagnier, University of Tennessee, Memphis
Sir Michael Rutter, Institute of Psychiatry, Medical Research Council, London

Submitted Symposium
20SS14 DEVELOPMENT OF JOINT VISUAL ATTENTION IN DEAF CHILDREN FROM DEAF AND HEARING FAMILIES: IMPLICATIONS FOR LANGUAGE DEVELOPMENT
Organizer: Margaret Harris
Language Mode and Communication Models
Patricia E. Spencer & Amy R. Lederberg
A Comparison of Attentional Behavior in Deaf Children With Deaf and Hearing Mothers: Implications For Early Language Development
Margaret Harris
The Development of Visual Attention to Signed Language in Deaf Children From Deaf and Hearing Families
M. Virginia Swisher

Submitted Symposium
20SS15 TODDLERS' PRETEND PLAY: PROVIDING A WINDOW ON THE DEVELOPMENT OF METAREPRESENTATION
Organizer: Arlene S. Walker-Andrews
The Development of Pretense Understanding
Roniit Kahana-Kalman, Arlene S. Walker-Andrews & Jennifer Blanchette
Causal Reasoning in Young Children
Paul L. Harris & Robert D. Kavanagh
Young Children's Understanding of the Mentalistic Nature of Pretense
Wendy L. Seier
Discussant: Catherine S. Tamis-LeMonda
SATURDAY, APRIL 20TH
4:30 PM - 6:00 PM

Invited Address
20IA3  EARLY ORIGINS OF PERSONALITY
       Jerome Kagan
       Chair: Joyce Benenson

Narragansett Ballroom A

SATURDAY, APRIL 20TH
6:00 PM - 7:30 PM

RECEPTION

Narragansett Ballroom C
SUNDAY, APRIL 21ST
9:00 AM - 12:00 NOON

Poster Session (21PS1) RICC Ballroom

A1-5 FATHERS
A1. Interactions Between Fathers and Their Six-Month-Old Infants During Caregiving and Play
A2. Infant Response to Mothers and Fathers in the Still-Face Paradigm
   Hernández, F. D.
A3. The Determinants of Fathering: A Developmental Analysis During the Toddler Years
   Woodworth, S.
A4. He Said, She Said: An Exploratory Study of Fathers’ and Mothers’ Perceptions of Father Presence in the
   Prenatal Period
A5. Fathers’ Roles in the Development of Young Children: A Qualitative and Quantitative Analysis of Paternal
   Involvement
   Vaughn, B. E.

C1-8 HIGH-RISK AND ATYPICAL LANGUAGE LEARNERS
C1. Perception of Quantity by Six-Month-Old Infants With High Genetic Risk for Dyslexia
   Richardson, U.
C2. Auditory Processing of Brief Temporal Cues and Family History of Autoimmune Disorders in Infants
   Benasich, A. A. & Blas, P.
   Spitz, R. V., Tallal, P. & Benasich, A. A.
C4. Development of Pragmatic Skills in Children With Unilateral Brain Injury
   Pan, B. A. & Feldman, H.
C5. Gesture Production and Language Delay: A Helping Hand
   Thal, D., Brown, C., Granberry, M. & Monson, M.
C6. Intentional Communications by Infants With Down Syndrome and Normally Developing Infants: Change and
   Continuity
   Hopmann, M. R. & Nothnagle, M. B.
C7. Pre-Linguistic Interaction Between Visually-Impaired Infants and Their Mothers
   Rattray, J. & Zeedyk, M. S.
C8. Morpho-Syntactic Development in Children With Early Focal Brain Injury
   Losh, M. C., Reilly, J. S. & Stiles, J.

D1-8 MARRIAGE AND FAMILY
D1. What Does It Mean When Parent-Toddler Involvement Changes Noticeably from Parent-Child to Whole Family
   Contexts?
   Carpenter, K., King, A., Kuersten, R. & McHale, J. P.
D2. When Marital Satisfaction Doesn’t Predict: Family Factors Involved in Mismatches Between Subjective Distress
   and Toddler Adjustment
   Loding, B., King, A., Kuersten, R. & McHale, J. P.
D3. Toddlers’ Representations of Family Group Interaction During Doll Play
   McHale, J. P., Laurenti, A., Kuersten, R. & Corcione, C.
D4. The 30-Month-Old in the Family Group: Assessing Toddler Behavior Following Positive and Negative Co-
   Parental Interchanges During Family Play
   McHale, J. P. & Corcione, C.
D5. Parent-Infant Interaction During Dyadic and Triadic Play: When Two Become Three
   Frosch, C. A., McHale, J. L., Mangelsdorf, S. C. & Chang, A.
D6. The Developmental Course of Temperament and Attachment in Predicting Marital Adjustment
   Ogle, R. L., Zimmermann, L. K., Bardal, J. & Stansbury, K.
E1. Behavioral State Organization of VLBW Infants: Effects of Handling Condition and Gestational Age
   Becker, P. T., Brazy, J. E. & Grunwald, P. T.

E2. Mothers' Behavior During Joint Attention to Picture Books With Both Full-Term and Very-Prematurely-Born Infants
   Eckerman, C. O. & Didow, S. M.

E3. Infants' Positive Affect During En Face Exchanges: Effects of Premature Birth, Race, and Social Partner

E4. Premature Infants' Preference for and Responsivity to Infant-Directed Speech

B5. The Relation of Change in Maternal Interactive Styles With Preterm Infants' Developing Social Competence Across the First Two Years of Life
   Landry, S. H., Smith, K. E., Miller, C. & Swank, P.

B6. Mother-Infant Interaction in Preterm Infants: Influences of Biological and Environmental Risk

E7. Early Preventative Psychotherapeutic Intervention Program for Parents After the Delivery of a Very Small Premature Infant
   Brisch, K. H., Buchheim, A., Kohntop, B., Kunzke, D., Kächele, H. & Pohlandt, F.

E8. Assessing the Impact of the Prematurity Stereotype on Mother-Premature Infant Interactions Over Time
   Stern, M., Karraker, K., Zak-Place, J. & Olexa, M.

E9. Relationship of Nursing Care to the Development of Sleeping and Waking Behaviors in Preterm Infants
   Brandon, D. H., Holditch-Davis, D. & Belyea, M.

F1. Do Infants Show a Preference for the "Least Salient" Object in a Visual Scene?
   Sireteanu, R. & Encke, I.

F2. Edge Sensitivity and Temporal Integration in Young Infants’ Perception of Object Unity
   Smith, W. C., Johnson, S. P., Spelke, E. S. & Aslin, R. N.

F3. Infants’ Use of Support Information in Object Segregation
   Huettel, S. & Needham, A.

F4. 9.5-Month-Old Infants Use Color and Pattern to Disambiguate a Complex Spatial Layout in an Object Segregation Task
   Needham, A. & Kaufman, J.

F5. 4-Month-Old Infants’ Use of a Visible Boundary Line as a Cue in an Object Segregation Task
   Kaufman, J. & Needham, A.

F6. The Role of Color and Shape in Infants’ Attention to Appearance-Function Correlations
   Madole, K. L.

G1. Effects of Otitis Media and Upper Respiratory Tract Infection on Cognitive Development of 6- and 12-Month-Old Infants
   Rising, K. L., Weir, C. G. & McMullen, M.

G2. The Influence of Neonatal Jaundice on Cognitive Functioning in 6- to 12-Month-Olds
   Millar, W. S., Weir, C. G. & Peck, K.

G3. Developmental Outcomes in Infants Born to HIV-Positive Women as a Function of Environmental and Medical Risk
   Kimpo, C. & Lewis, M.

G4. Ratings of Focused Attention in Relation to Other Clinical Measures for Very Low Birth Weight Infants
   Lawson, K. & Ruff, H. A.

G5. Infancy Correlates of Attention Problems Among Low Birth Weight Children
   Robson, A.
G6. Distractibility in CNS Impaired and Non-CNS Impaired Infants
   Feldman, I. J., Freedland, R. L., Gardner, J. M. & Karmel, B. Z.

G7. Neurodevelopmental Outcome of Neonatal ECMO Survivors
   Orlich, F., Fleischer, B. F., Rhine, W. D. & Van Meurs, K. P.

G8. A Randomized Study of the Effects of Long-Chain Polyunsaturated Fatty Acids on Infant Habituation
   Willatts, P., Forsyth, J. S., Dimodugno, M. K., Varma, S. & Colvin, M.

G9. Maternal Thyroid Peroxidase Antibodies During Pregnancy: A Marker of Impaired Child Development?
   Pop, V., Verkerk, G., Kuipens, H., van Son, M., Vader, H., Wiersinga, W., Dreghorne, H. & van Baar, A.

H1-8 PRENATAL SUBSTANCE EXPOSURE: EARLY BEHAVIOR AND REACTIVITY

H1. Is Responsiveness to Multimodal, Infant-Directed Talk Affected by CNS Damage and Exposure to Cocaine
   Lewkowski, D. J., Karmel, B. Z. & Gardner, J. M.

H2. In utero Exposure to Terbutaline: Effects on Infant Behavior and Maternal Self-Esteem
   Thayer, J. S.

H3. Investigation of the Relationship Between Addiction Severity and Mother-Infant Interaction at Four Months
   Britt, G. C., Knisely, J. S., Dawson, K. S. & Schnoll, S. H.

H4. 2- to 6-Month Shift from Hypo- to Hyper-Reactivity to Stress in Infants With Prenatal Cocaine Exposure
   Ramsay, D. S. & Lewis, M.

H5. The Effects of in utero Substance Exposure on Fetal Reactivity
   Masakowski, Y. R., Dietz, L. J., Carmichael, T., LaRosa, P. A., Brazelton, T. B. & Lester, B. M.

H6. Substance Exposed and Non-Exposed Infants and Toddlers: Their Home Environments in Teaching Interactions (NCATS)

H7. A Longitudinal Study of Prenatally Cocaine-Exposed Infants and Matched Controls: Relationship of One Month
   Blinded Brazelton Assessments (BNBAS) and HOME Scores
   Eyler, F. D., Behnke, M., Conlon, M., Woods, N. S. & Wobie, K.

H8. Relation Between Reported Maternal Caffeine Consumption During Pregnancy and Neonatal State and Heart Rate
   Schuetze, P. & Zeskind, P. S.

I1-10 DEVELOPMENT OF TEMPERAMENT AND EMOTION

I1. Antecedents of 3-Year Inhibition: Infant Emotionality and Parenting During Toddlerhood
   Putnam, S. P., Park, J.-Y., Belsky, J. & Crnic, K.

I2. Temperament and Parenting Antecedents of Individual Differences in 3-Year-Olds' Pride and Shame Reactions
   Domitrovich, C. E., Belsky, J. & Crnic, K.

I3. Changes in Emotionality from Six to Eight Months of Age: The Role of Infant Prohibitions
   Zumbahlen, M. & Schertz, J.

I4. A Dynamic Systems Approach to Toddler Smiles: Smile Type, Action, and Social Interactive Sequences
   Holt, S. A.

I5. On the Origin of Emotions: The Phenomenon of Emotion Reading
   Nagy, E. & Molnár, P.

I6. Knowledge of Gender-Stereotyped Emotion in 24-Month-Old Children
   Bartlett, N., Poulin-Dubois, D. & Serbin, L.

I7. The Influence of Prenatal Experience on Neonatal Differentiation of Vocal Expressions of Emotion
   Mastropieri, D.

I8. Early Events in Children’s Lives and Later Morality
   Rosenthal, S. & Lewis, M.

I9. Temperament and Environment in Infancy: Sibling Contributions to the Development of Fearfulness
   Arcus, D. M., Gardner, S., Andrick, G. & Bell, R.

I10. Developmental Outcomes of Behavioral Inhibition: How Do Inhibited and Uninhibited Children Differ in Their Behavioral Reactions to the Entrance into Kindergarten?
    Rimin-Kaufman, S. E., Rosenstock, E. G. & Arcus, D. M.

J1-8 PERCEPTUAL DEVELOPMENT

J1. Intraterine Sound Transmission in the Pregnant Ewe and in Rubber Spheres: In Search of a Model
   Lecanuet, J.-P., Gautheron, B., Locatelli, A. & Schaal, B.
J2. Role of Spatial Contiguity in Bobwhite Quail Chicks' Responsiveness to Multimodal Maternal Cues  
Lickliter, R., Lewkowicz, D. J. & Columbus, R. F.

J3. Postnatal Experience With Integrated or Disparate Maternal Cues Affects Inter-Sensory Development in  
Bobwhite Quail  
Columbus, R. F., Sleigh, M. J. & Lickliter, R.

J4. Amount and Type of Prenatal Sensory Stimulation Affects Prenatal Auditory Learning in Bobwhite Quail Chicks  
Sleigh, M. J., Columbus, R. F. & Lickliter, R.

J5. Frequency Selectivity in Infants: Comparison of Tuning for Auditory Brainstem Response Waves I and V  
Murphy, J. D. & Ashmead, D. H.

J6. The Accuracy of Video Tape Analysis of Saccadic Reaction Time as Compared to EOG Measures in 6-Month-Old Infants  

J7. Vector Summation in Young Infants' Saccade Planning  

J8. Spatial Frames of Reference in Young Infants' Saccades  

K1-8 INDIVIDUAL DIFFERENCES IN EMOTION AND TEMPERAMENT

K1. Individual Differences in Exploratory Behavior During Infancy  
O'Dell, C. D. & Wyant, C.

K2. Strategies Used by 9-Month-Olds When Confronted by a Novel Object  
Fish, M. & Fish, S. E.

K3. Rating Emotional States in 6-Month-Old Infants: A Downward Extension of the KIDIES  
Bryan, R., Brown, J. V., Bakeman, R. & Coles, C. D.

K4. Behavior Genetic Differences in the Onset of Crawling/Walking and Separation/Stranger Anxiety  

K5. Genetic Evidence for Difficult Temperament in Early Childhood: A Twin Study  
Lemery, K. S. & Goldsmith, H. H.

K6. Sex Differences in Neonatal Behaviors  
Philippoussis, M. & Benenson, J.

K7. The Assessment of Self-Concept Development in Toddlers  

K8. Sex- and Age-Related Differences in Terms of Social Proximity in Swedish Infant-Mother Interactions  
Lindahl, L. B. & Hiemann, M.

L1-8 PARENTING EFFECTS ON TEMPERAMENT AND EMOTION

L1. Trait Emotion and Bi-Directional Influence in the Mother-Infant Relationship  
Cohn, J. F., Moore, G. A. & Campbell, S. B.

L2. Feeling Talk in the Family and Toddlers' Understanding of Emotions  
Kuersten, R. & McHale, J. P.

L3. Information Processing in Infancy: Relationships With Infant Temperament and Maternal Behavior  

L4. Longitudinal Predictions Between Infant Temperament and Parental Sensitivity With Toddler Noncompliance  

L5. Interaction of Parenting Skills and Child's Temperament  
Fagot, B., Capaldi, D., Pears, K. & Rundman, D.

Fittpatrick, M. J., Goldberg, W. A. & Clarke-Stewart, A.

L7. Infant Physical Attractiveness, Temperament, and Affect in Relation to Tester Behavior  
Hart, A. D. & Roggman, L. A.

L8. Maternal Responses to Their Toddlers in Emotion Eliciting Episodes: Associations With Context and Perceptions of Temperament  
Diener, M. L., Mangelsdorf, S. C. & Pritzker, D.
M1-4, N1-3  TEMPERAMENT AND HEALTH INFLUENCES ON LANGUAGE

M1. Relationships Between Language Comprehension and Temperament in 7-Month-Old Infants

M2. Temperamental Mediation of the Relationship Between Child-Directed Speech and Children's Language Acquisition
   Dixon, W. E. Jr., Young, C. L., Goshé, C. J. & Shore, C.

M3. Early Language Development in Toddlers With Prenatally-Detected Sex Chromosome Trisomies
   Finegan, J. K., Sloss, T., Summers, A., Farrell, S. & Meschino, W. S.

M4. Otitis Media and Quality of Care: Effects on Language, Attention, and Social Behavior
   Verno-Fegan, L.

N1. The Relationship Between Temperament, Language, and Emotion Regulation
   Zimmermann, L. K., Ogle, R. L. & Stansbury, K.

N2. Is There Competition for Expression Between Language and Affect During the Transition from One- to Two-Word Speech?
   Kubicek, L. F., Nikkari, D. S. & Emde, R. N.

   Kubicek, L. F., Schmitz, S. & Emde, R. N.

SUNDAY, APRIL 21ST
9:30 AM - 12:00 NOON

Invited Symposium

Naragansett Ballroom A

21IS1  CONTRIBUTIONS OF EARLY LEARNING TO BEHAVIORAL DEVELOPMENT
   Organizer: Jacob L. Gewirtz
   Newborn Operant Learning Informs Us About Prenatal Language Development and Learning
      Anthony J. DeCasper
   Parallel Processing in Newborn Learning
      T. G. R. Bower
   Generalized Imitation and Its Boundaries
      Claire L. Poulson
   Infant Operant Learning in Natural Settings
      Jacob L. Gewirtz
   Discussant: Lewis P. Lipsitt

Invited Symposium

Providence Ballroom

21IS2  CHILDREN'S EXTERNALIZING PROBLEMS: THE CONTRIBUTIONS OF CHILD TEMPERAMENT, PARENTING STYLES, AND SOCIODEMOGRAPHIC FACTORS
   Organizers: Nathan Fox & Jeff Cohen
   The Relations Among Externalizing Behavior, Temperament, and Social Interaction in Toddlers
      Ariana Shahinfar, Louis A. Schmidt & Nathan Fox
   Regional Brain Electrical Activity (EEG) in Toddlers' Externalizing Problems
      Louis A. Schmidt, Ariana Shahinfar & Nathan Fox
   Prediction of Child Externalizing Problems from Infant Difficulty and Early Parenting
      Elizabeth B. Owens, Emily B. Winslow, Joyce L. Giovannelli & Daniel S. Shaw
   Relations Between Early Parenting and Child Externalizing Behavior in Families from Different Socioeconomic Backgrounds
      Emily B. Winslow, Daniel S. Shaw, Joyce L. Giovannelli & Eric Delliquadri
   Discussant: Susan B. Campbell
Submitted Symposium

21SS1 ORIGINS AND EARLY DEVELOPMENT OF PERCEPTION-ACTION COUPLING
Organizer: Bennett L. Bertenthal
Self-Exploration in Infancy
Philippe Rochat
Visual Postural Coupling by Neonates
François Jouen
Development of Prospective Control as the Basis of Action Development
Claes von Hofsten
The Role of Vestibular Information in the Process of Learning to Walk
S. R. Wiener-Vacher, A. Ledebt & B. Bril
Discussant: Bennett L. Bertenthal

Submitted Symposium

21SS2 POINTING AND GESTURAL COMMUNICATION IN APES AND HUMAN INFANTS
Organizers: Michael Tomasello & George Butterworth
The Gestural Communication of Apes and Human Infants
Michael Tomasello
Event Perception and Index Finger Pointing in Babies
George Butterworth
The Pointing Gesture in Human Ontogeny and Pathology
Luigia Camaioni
What Young Chimpanzees Know About Their Gestures
Daniel Povinelli
Discussant: Chris Moore

Submitted Symposium

21SS3 JEALOUSY: DEVELOPMENT FROM 4 MONTHS TO 4 YEARS IN TWO SOCIAL SITUATIONS
Organizer: Wendy E. Roth
Mother's Attention to a Baby Doll Evokes Jealousy Protests in Their Year-Old Infants
Sybil Hart
Jealousy: Development From 4 Months to 4 Years in Two Social Situations
Sonja W. Mischel & Kim Kienapple
Maternal Attention to a Twin Sibling Evokes, and Contingent Maternal Attention Reinforces, Jealous Behavior in Twin Infants
Wendy E. Roth, Jacob L. Gewirtz & Michael R. Markham
Discussants: Michael Lewis & Kim Kienapple

Submitted Symposium

21SS4 SOCIO-EMOTIONAL INFLUENCES ON COGNITIVE PERFORMANCE IN INFANCY
Organizer: Joan T. Bihun
Temperamental Influences on Infant Cognitive Performance on Standardized Versus Information-Processing Tasks
Joan T. Bihun
Influence of Attachment Quality and Intensity of Attachment Insecurity on Cognitive Performance and Emotional State of 21-Month-Old Infants
Ute Ziegenhain, Bernd Müller & Hellard Rahn
Does the Developmental Prognosis For Drug-Exposed Infants Improve in Infants With Secure Mother-Child Attachment Quality?
Valerie Ahl & Teresa Jacobsen
Quality of Parent-Infant Interaction at 4 and 12 Months as a Predictor of Security of Attachment and Attention
Regulation at 12 Months
Roseanne Clark & Valerie Ahl
Discussant: Donald J. Tvrrel
Submitted Symposium

21SS5 BETWEEN PLEASURE AND EXCESSIVE CRYING: INTERACTIONAL ASPECTS OF INFANTS’ BEHAVIORAL SELF-REGULATION
Organizer: Hanus Papoušek
Taste Mediated Calming as a Probe of Behavioral State Regulation
Ronald G. Barr
The Development of Crying in Preterm Infants
Brian Hopkins & Ronald G. Barr
Infant Crying as Communication and as Indication of Instability in the Mother-Infant System
Evelyn B. Thoman
Infantile Persistent Crying, State Regulation, and Intuitive Parenting
Mechthild Papoušek
Discussants: Victor Denenberg & Peter H. Wolff

Submitted Symposium

21SS6 CONTINUITY OF REGULATORY PROCESSES FROM INFANCY TO PRESCHOOL
Organizer: Linda L. LaGasse
Neonatal Regulation and Emotional Expression at 3 Months
Linda L. LaGasse
Self-Regulatory Behavior and Cardiorespiratory Reactivity at Three Months: Relations With Behavior at One Month
Rosemarie Bigsby
The Association Between Early Regulatory Processes and Self Regulation Strategies at 15 Months
Mary C. Sullivan
The Association of Infant Regulatory Processes With Preschool Measures of Temperament and Socioemotional Competence
Margaret M. McGrath
Discussant: Barry M. Lester
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Ramsey

Rambler Child Ministry 1986

adjusted from 1960

Heck, project overruled

Get such forms 3 feel at church

Get accounting

May 15

Budget => spent

When receiving/accepting cash (autographed)

Add \( \text{Budget} \) column

Add data from

Increase beyond ability from overseers

Fruits than from last year?

2. Wash Modern Cook

Art/Craft Cook - found with social function
# 1996 ICIS Worksheet

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**TO DO:**

MK DiModugno

c/o UMD College Park

400 H Building 18

Wash. DC 20336

c/o K (S. Porges)