

**10th
Biennial**

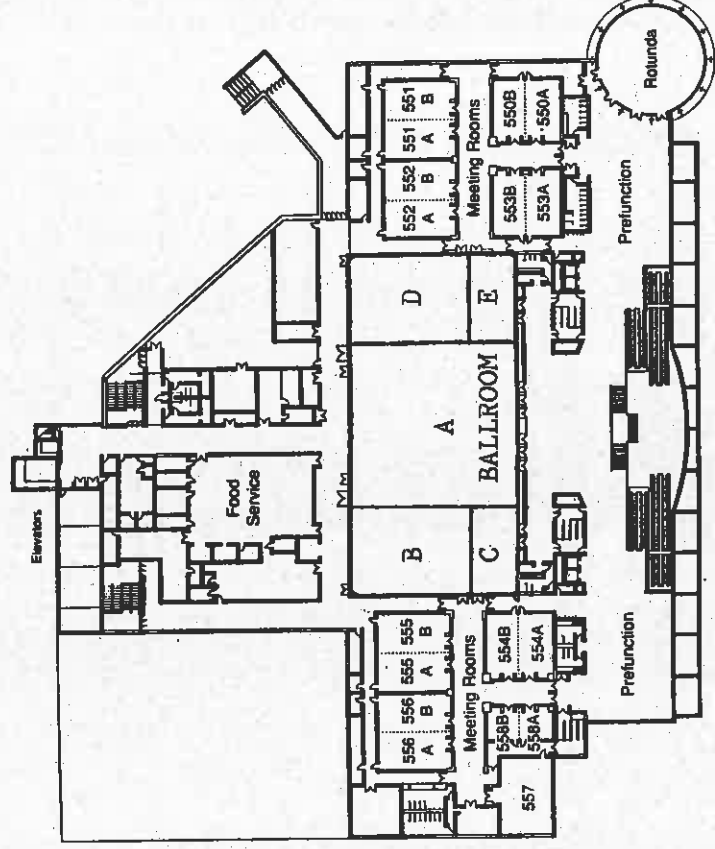
International Conference on Infant Studies



April 13-21, 1996

**The Westin Hotel
and
The Rhode Island Convention Center
Providence, Rhode Island**

RHODE ISLAND CONVENTION CENTER



WESTIN HOTEL

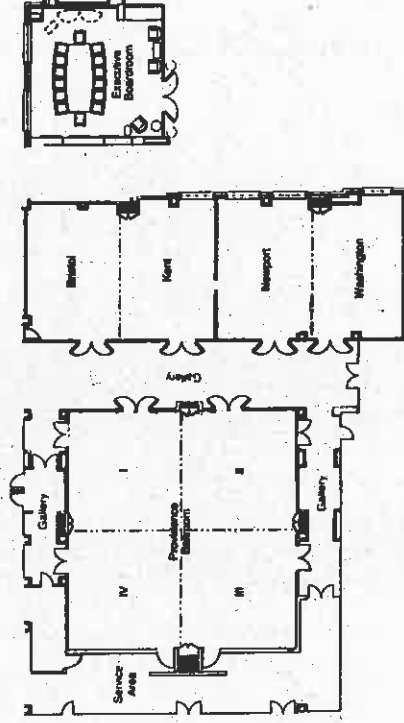
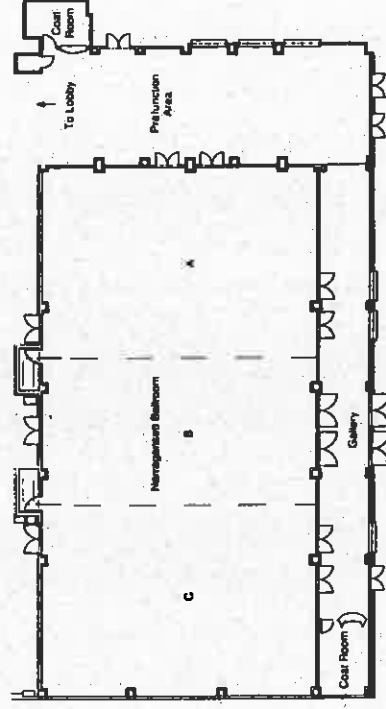


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10th Biennial INTERNATIONAL CONFERENCE ON INFANT STUDIES

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, Lawrence Erlbaum Associates, Manissex 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

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

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 Meltzoff
David Moore
Paul Quinn
Carolyn Rovee-Collier
Peter Willatts
Philip R. Zelazo

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

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

REVIEW PANELS (Continued)

6. Social/Parent-Child Interaction/Peer and Sibling

Chair:

David Oppenheim
University of Haifa, Israel

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

8. Early Environments/ Intervention

Chair:

Joy Osofsky
LSU Medical Center

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

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 Zeanah

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. Amtrack 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 Neuropharmacological 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 Boukydis, 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 poster 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 Sagi, 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

Narragansett Ballroom BC

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

Providence Ballroom

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

RICC 552

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

RICC 550

18SS1 PROSODIC DEVELOPMENT: THE VIEW FROM PRODUCTION**Organizer:** Marilyn M. Vihman

Acoustic and Perceptual Evaluation of Stress

Rory Depaolis, Marilyn M. Vihman & Barbara L. Davis

An Acoustical Study of Prosodic Correlates of Stress in Babbling

Barbara L. Davis & Peter F. MacNeilage

Trochees and Iambis in Early Word Production

Marilyn M. Vihman, Barbara L. Davis & Rory Depaolis

Linguistic Variability and Young Children's Acquisition of Prosodic Speech Timing

David Snow

Discussant: Carol Stoel-Gammon

Submitted Symposium

Newport/Washington

18SS2 PERSPECTIVES ON INFANT MEMORY**Organizer:** Harlene Hayne

Investigating Memory and Deferred Imitation in 12-Month-Olds

Pamela J. Klein & Andrew N. Meltzoff

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 SymposiumBristol/Kent
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)**

RICC Ballroom

A1-5 VOCABULARY: PARENT REPORT**A1.** Continuity in Early Language Development

Lyytinen, P. & Poikkeus, A.-M.

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.

- A4. Assessment of Vocabulary Comprehension: Parent Judgement and Child Performance
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
Sethre-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, J. 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, J., Manchisi, 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. & Streri, A.
- E2. The Development of Midline Reaching: Sex and Asymmetric Differences
Andal, J. D., Grattan, M. P., Levy, J. & McClintock, M. K.
- 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
Keren, 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.
 E9. Maternal Expectations of Infant Temperament: Associated Factors During Pregnancy
Chazen, 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-Proprioceptive 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
Tellinghuisen, 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
Hoffhines, 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. & Crigger, A. K.
- I3.** Infants' Sensitivity to Changes in Ontological Kind
Rosser, R. A., Narter, 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. & Gottlieb, 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
Nicely, P., Baumwell, L. & Tamis-LeMonda, C. S.

K1-10 HABITUATION AND MEMORY

- K1. Replication of Looking-Time Phenomena During a Pediatric Exam
Morrow, J. D. & Carlson, J.
- K2. Selective Integration of Perceptual Information in Infant Memory
Adler, S. A.
- K3. 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.
- K4. Holistic Processing in Infancy: Implications for Theories of Infantile Amnesia
Hembrooke, H. & Spear, N. E.
- K5. Delayed Recognition Memory in Newborn Infants
Laplante, D. P. & Orr, R. R.
- K6. Long-Looking Infants Are Slower to Disengage Fixation
Frick, J. E., Colombo, J. & Saxon, T. F.
- K7. 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.
- K8. Stability in Habituation Organization Between 3 and 5 Months and the Relation to Fetal Growth
DiModugno, M. K., Willatts, P. & Forsyth, J. S.
- K9. Individual Differences in Infant Visual Scanning During Habituation
Krinsky-McHale, S. J. & Hainline, L.
- K10. What's Different About Babies Who "Fail to Provide Data" in Habituation Experiments?
Oates, J.

L1-8 INTERVENTIONS: GENERAL

- L1. The Effect of an Early Intervention on Enhancing the Quality of Mother-Infant Interaction
Wendland-Carro, J., Piccinini, C. & Millar, W. S.
- L2. Translating Developmental Knowledge from Research to the "Real World"
Morisset, C. E. & Lines, P.
- L3. Preliminary Findings of the Effects of Pre- and Postnatal Home Visitation on Emotion Regulation in Infancy
Robinson, J. & Korfmacher, J.
- L4. Longitudinal Evaluation of a "Teen Parents and Babies" Program
Honig, A. S. & Morin, C.
- L5. Is Contingency Intervention Effective?
Sullivan, M. W., Laverick, D. & Lewis, M.
- L6. Outcomes of Two Interventions for Troubled Mother-Infant Relationships
Cohen, N., Muir, E. & Lojkasek, M.
- L7. Parent-Implemented Treatment and Improved Play in Delayed Toddlers
Kruzynski, A. K., Lalinec, C., Zelazo, P. R., Reid, C. & Kay, D.
- L8. Multi-State Survey of Home Visiting Practices for Infants and Toddlers With Disabilities
McBride, S., Peterson, C., McCollum, J. A. & Marvin, C.

M1-4, N1-3 POSTURE, CRAWLING AND WALKING

- M1. Relative Phase Relations in the Coupling of Infants' Postural Responses to Optic Flow
Rose, J. L. & Bertenthal, B. I.
- M2. Changing Patterns of Inter-Limb Coordination from Supported to Independent Walking
Vereijken, B. & Waardenburg, M.
- M3. Roles of Variability and Experience in Development of Crawling
Vereijken, B., Adolph, K. E. & Denny, M. A.
- M4. Replication Study: Seasonality and Locomotor Onset
Benson, J. B.
- N1. Emergence of a Stepping Strategy: How Infants Learn to Walk Down Hills
Adolph, K. E., Gill, S. V., Lucero, A. & Fadl, Y.
- N2. Footprint Method of Gait Analysis: New Insights into Infant Walking
Adolph, K. E., Vereijken, B., Byrne, K., Urspruch, T., Ilustre, I. & Ondrako, A. M.
- N3. Context Effects on Neuromuscular Control During Stepping in Newly Walking Infants
Ulrich, B., Angulo-Kinzler, R., Chapman, D. & Thelen, E.

**THURSDAY, APRIL 18TH
2:30 - 4:00 PM****Invited Symposium**

18IS4 **A BEHAVIORAL ASSESSMENT OF INFANT TEMPERAMENT: ISSUES AND REVISIONS** Narragansett Ballroom BC

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. Halpern & Sharon A. Malkemus

Discussant: Ronald Seifer

RICC 551

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

Newport/Washington

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

RICC 552

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. Zeanah

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 & Davené White

Home Visiting For Improving Health Care Utilization and Parenting Skills in Urban Minority Populations

Kathy S. Katz, Susan Schneider & Phyllis Sharps

Submitted Symposium

Bristol/Kent

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 Psychoimmunology of the Preterm Neonate

Eldivina N. Adamson-Macedo

Cardiac Responses of Ventilated Preterms to Systematic and Random Gentle/Light Stroking

Aine de Roiste, I. Bushnell & Eldivina N. Adamson-Macedo

Submitted Symposium

Providence Ballroom

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. Farkas, R. Arendt, S. Minnes, J. Huang & T. Yamashita

Discussant: Judith Gardner

THURSDAY, APRIL 18TH

4:15 PM - 5:00 PM

ICIS STUDENT AWARDS

Narragansett Ballroom BC

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

Narragansett Ballroom BC

18IA1 **SHIFTING THE FOCUS FROM WHAT TO WHY**

Carolyn Rovee-Collier

Chair: Esther Thelen

THURSDAY PM

**THURSDAY, APRIL 18TH
6:00 PM - 7:30 PM**

PRESIDENTIAL RECEPTION

SPONSORED BY: Narragansett Ballroom A & Prefunction Area
*Johnson & Johnson Consumer and Personal Products Worldwide and
Ablex Publishing Corporation*

FRIDAY, APRIL 19TH
7:30 AM - 9:00 AM

FRIDAY 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., Knaif-Jensen, D. E. & Busch-Rossnagel, N. A.
- A2. Mastery Motivation, Child Competence, and Family Context
Lynch, M. M., Hayden, L. C., Seifer, R., Dickstein, S., Schiller, M., Matzko, M. & Sameroff, A. J.
- 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
Meyer, E. C., Garcia Coll, C. T., Seifer, R., Kilis, E., Ramos, A. M., Kelly, L. & Oh, W.
- B2. Differential Maturation of the Autonomic Nervous System During Nipple Feeding in Term and Preterm Infants
Medoff-Cooper, B., Verkman, T., Zhang, P. & Delivoria-Papadopoulos, 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
Garner, E. E., Berg, W. K. & Boswell, A. E.
- C2. Age Differences in Anticipating Hierarchical Rule-Based Sequences
Loboschewski, T. W., Smith, P. H. & Vidic, J. M.
- C3. Changes in Facilitation During Sequential Learning: Infants' Ability to Make Use of Multimodal Information
Loboschewski, 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., Brezsnyak, M., Aaron, K. & Raitano, N.
- C7. Developmental Invariance of Minimum Reaction Time in the Visual Expectation Paradigm
Canfield, R. L., Snow, K. L., Brezsnyak, 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 Sharable 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
Schuengel, C., van Ijzendoorn, M. H., Bakermans-Kranenburg, M. J. & Blom, M.
- D3. Maternal Interactive Behavior and Infant Attachment: A Meta-Analysis
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
Walls, M. E., Melson, G. & Bryan, Y. E.
- D8. Attachment Among Neurologically Impaired Toddlers
McCaskill, J., Barnett, D., Butler, C., Hill, K., Kaplan-Estrin, M., Pardee, C. & Pszonka, M.
- 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
Aguilar, A. & Baillargeon, R.
- E3. 6.5-Month-Olds' Reasoning About Containment Events
Aguilar, 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
Slotton, 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
Cognnot, 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.
- H2. The Social Construction of Autonomy Through Narrative Practices: A Comparative Study
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.
- H5. The Patterning of Facial Expressions in Chinese, Japanese, and American Infants in Fear- and Anger-Eliciting Situations
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. & Fricke, 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
Bornstein, M. H., Pascual, L., Haynes, O. M., Galperin, C., Vyt, A., Pecheux, M.-G., Maital, S., Painter, K. M. & Rahn, C.
- 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
Griffith, E. M., Rogers, S. J., Wehner, B., Harmon, R. & Pennington, B. F.
- I4. Autistic Toddlers: Are They Attached?
Hopkins, J., Pitterle, P., Isaacs, C., Gaither, R., Marshall, K. B. & Matias, R.
- 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
Heermann, J. A., Jones, L. C. & Hatcher, D. V.

18. Toilet Training in Real Life

Chassler, D. & Chickering, F.

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

Roach, C. J., Sameroff, A. J., Hayden, L. C., Schiller, M., Dickstein, S. & Seifer, R.

J4. Sexual Abuse as a Factor in Child Maltreatment by Adolescent Mothers

Spieker, S. J., Bensley, L., McMahon, R. J., Fung, H. & Osslander, 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

Fracaso, 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**

Pelaez-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.
- N1. Utterance-Length Differences in the Babbling of French- and English-Learning Infants
Levitt, A. G., Irwin, J. R. & Whalen, D. H.
- N2. Differential Use of Centralized Vowels in the Babbling of French- and English-Learning Infants
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

19IS1 CONTRIBUTIONS TO THEORIES OF LANGUAGE ACQUISITION FROM BILINGUAL CHILDREN

RICC 553

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

Annick 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

19IS2 THE TODDLER PERIOD: TRANSITIONS AND IMPLICATIONS

RICC 551

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
19IS3 MEDICINE AND INFANT DEVELOPMENT: NEW TECHNIQUES AND CHALLENGES

Narragansett Ballroom C

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

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Submitted Symposium

19SS1 INFANT NUTRITION: DIETARY EFFECTS ON THE DEVELOPMENT OF VISION, COGNITION

AND LANGUAGE

RICC 550

Organizer: E. Eugenie Hartmann

Effects of Docosaheanoic 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 & Carolanne 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

19SS2 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

Bristol/Kent

Submitted Symposium

19SS3 **MULTIDIMENSIONALITY IN MATERNAL SENSITIVITY: INDIVIDUAL, CONTEXTUAL, AND CULTURAL FACTORS IN RECENT CONCEPTUALIZATIONS**

Organizer: Catherine S. Tamis-LeMonda

Sensitivity in Parenting Interactions Across the First Two Years: Influences on Children's Language and Play
Catherine S. Tamis-LeMonda, Amy M. Damast, Lisa Baumwell & Marc H. Bornstein

Intuitive Parenting and Excessive Infant Crying: Regulatory Processes and Interactional Failures
Mechthild Papoušek

Propagating Cultural Knowing: Cultivating Effectiveness and Affordances

Patricia Zukow-Goldring

The Emergence of Sequential Play Behaviors in a Dyadic Context

James Bodle, Ling-Yi Zhou, C. Shore & Wallace E. Dixon, Jr.

Maternal Sensitivity to the Visual Needs of Deaf Children

Kathryn P. Meadow-Orlans & Patricia E. Spencer

Discussant: Hanus Papoušek

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 P. 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

Providence Ballroom

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

Sheepa L. Carter & Maureen M. Larossa

Discussant: James S. Gyrke

Newport/Washington

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

Invited Address

19IA1 **HUMAN BRAIN ORGANIZATION IN THE CONTEXT OF MAMMALIAN DEVELOPMENT AND EVOLUTION: WHAT'S GENERAL AND WHAT'S SPECIAL?**

Barbara Finlay

Chair: Richard L. Canfield

Narragansett Ballroom A

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

LUNCH BREAK

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

Discussion Session

19DS1 POST TRAUMATIC STRESS DISORDER IN INFANTS AND YOUNG CHILDREN Newport/Washington

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

19DS2 PHYSIOLOGICAL MEASURES IN INFANT RESEARCH: DIVINING ROD OR PANDORA'S BOX Providence Ballroom

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

19DS3 WHAT CAN HUMAN INFANCY RESEARCHERS LEARN FROM RESEARCHERS WHO STUDY NUNHUMAN SUBJECTS? Bristol/Kent

Organizer: Kim A. Bard

Kim A. Bard, Yerkes Regional Primate Center
Carolyn Ristau, Barnard College of Columbia University
Dorothy Frigaszy, University of Georgia

Discussion Session

19DS4 FEDERAL AND NON-FEDERAL RESEARCH FUNDING: CONVERSATION SESSION Narragansett Ballroom C

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

19DS5 PROBLEMS AND SOLUTIONS IN CROSS-CULTURAL ADAPTATION OF RESEARCH TOOLS RICC 553

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

RICC 552

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 Sagi, Nina Karie-Koren & Tirtsa Joels

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. Spieker

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 Biringen

FRIDAY, APRIL 19TH

1:00 PM - 4:00 PM

Poster Session (19PS2)

RICC Ballroom

A1-5, C1-10 SEARCH FOR HIDDEN OBJECTS

A1. Searching for Hidden Objects Without Visual Feedback

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

Narter, 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., Learnmonth, A. & Wiley, J.

C4. Use of External Frames of Reference and Dead Reckoning in Toddler's Coding of Spatial Location

Newcombe, N., Huttenlocher, J., Drummey, A. B. & Wiley, J.

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

Shinsky, J. L. & Bogartz, R. S.

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
Pelaez-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
Saah, M. I., Waxman, S. R. & Johnson, J. S.
- 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., Heberle, 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
Schwade, J. A., Wewerka, S. S. & Bauer, P. J.
- 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
Stack, D. M., LePage, D. E., Hains, S. & Muir, D. W.
- 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. & Reznic, 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. & Kamenetsky, 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 Trevarthen
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, J. & 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
Symons, L. A., Hains, S., Dawson, S. & Muir, D. W.
- 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., Eichler, M., Schwartz, L. & Raver, C.

- H8. Two- and Four-Month-Old Infants' Responsiveness to Varying Intensities of Facial Versus Vocal Positive Affect
Molitor, A. & Eckerman, C. O.
- I1-10 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
Phillips, J., Augoustis, E., Tarabulsky, G., Pederson, D. R. & Moran, G.
- 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.
- (15) Attachment in Relation to Parenting Stress and Temperament: Longitudinal Effects from 10 to 18 Months
Roggman, L. A., Hart, A. D. & Jump, V. K.
- 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
Shafae, S. M. & Self, P. A.
- J3. Newborn Preferential and Discriminatory Behavior Toward Face-Like Stimuli
Easterbrooks, M. A., LaPlante, D. P., Vorkapitch, L., Kisilevsky, B. S., Neville, K. & Muir, D. W.
- 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.
- (K6. It's Not What You Know, It's Who You Know: The Effect of Siblings on Imitation in Infancy
Barr, Rachel & Hayne, H.
- K7. Developmental Changes in Generalization: Implications for Memory Development
Boniface, 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
- K9. Human Imprinting, Critical Period, Caregiver Responsibility: A New Look at Causes and Consequences
Molnár, P. & Nagy, E.
- L1-8
- L1. CAREGIVER INTERACTIONS WITH HIGH RISK INFANTS
The Effects of a Comprehensive Early Intervention Program on the Quality of Mother-Child Interaction With Low Birth Weight, Premature Infants
Wheeden, 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
- (M1. PREDICTING INTELLECTUAL FUNCTION
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. & Parmelee, 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
Rose-Jacobs, R., Frank, D. A., Cabral, H., Beeghly, M., Brown, E. R., Tronick, E. Z. & Zuckerman, B.
- N4. Infant Novelty Preference in Relation to Toddler Language and Symbolic Play in a Finnish Longitudinal Study
Poikkeus, A.-M., Lyytinen, P., Heiskanen-Nikula, K. & Ahonen, T.

FRIDAY, APRIL 19TH
2:30 PM - 4:00 PM

Invited Address

191A2 SOLVING THE CHILD CARE CRISIS

Edward Zigler

Chair: Sarah L. Friedman

Narragansett Ballroom A

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

Invited Symposium

191S4 INFANT ATTENTION DEVELOPMENT: PERSPECTIVES FROM COGNITIVE NEUROSCIENCE

RICC 552

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 & Felecia Holley

Discussants: John Colombo, Louise Hainline, Charles A. Nelson & Holly A. Ruff

Submitted Symposium

19SS7 THE CULTURAL ORGANIZATION OF INFANCY: A COMPARISON OF PUERTO RICAN, CENTRAL AMERICAN, AND ANGLO-AMERICAN MOTHERS

Bristol/Kent

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 García Coll

Discussion Session

19DS6 PEDAGOGY IN DEVELOPMENTAL SCIENCE: GENERATING STUDENT EXCITEMENT ABOUT RESEARCH

Newport/Washington

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

19DS7 TALK WITH JOURNAL EDITORS

Narragansett C

Organizer: James A. Blackman

~~James A. Blackman, *Infants and Young Children*~~

~~Marc H. Bornstein, *Child Development*~~

~~Carol O. Eckerman, *Social Development*~~

~~Joy D. Osofsky, *Infant Mental Health Journal*~~

~~Carolyn Rovee-Collier, *Infant Behavior and Development*~~

~~Philip D. Zelazo, *Cognitive Development*~~

Discussion Session

- 19DS8 **WHAT HAPPENED TO THE PROVERBIAL BABY AND BATHWATER?: A DISCUSSION OF THE PROS AND CONS OF THE BAYLEY-II** RICC 551
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 Arendt, Case Western Reserve School of Medicine

Discussion Session

- 19DS9 **CONCEPTIONS OF INFANCY IN THE HISTORY OF DEVELOPMENTAL PSYCHOLOGY AS A SCIENCE AND PROFESSION** RICC 550
Organizer: Thomas C. Dalton
 Thomas C. Dalton, California Polytechnic State University
 William Kessen, Yale University
 Jerome Kagan, Harvard University

Submitted Symposium

- 19SS8 **SEPARATION AND ATTACHMENT IN THE 90'S: ENDURING QUESTIONS FROM A CONTEMPORARY PROSPECTIVE** Providence Ballroom
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

- 19SS9 **BEYOND HIGH RISK: CLINICAL DISORDERS OF INFANCY** RICC 553
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

- 19IA3 **PROFOUND EARLY DEPRIVATION AND LATER SOCIAL RELATIONSHIPS IN EARLY ADOPTED FROM ROMANIAN ORPHANAGES FOLLOWED AT AGE 4** Narragansett Ballroom AB
 Sir Michael Rutter
 Chair: Arnold J. Sameroff
SPONSORED BY: *The Sengstack Foundation for Early Childhood*

FRIDAY PM

**FRIDAY, APRIL 19TH
6:00 - 7:00 PM**

Providence Ballroom

ISIS BUSINESS MEETING

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

Narragansett Ballroom AB

GALA DINNER

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

Invited Symposium

RICC 555

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 Garcia Coll, Maria Valcarcel, Leslie F. Hjalpern, Elaine Mayer & Richard Riston

Discussant: Tiffany Field

Invited Symposium

Narragansett Ballroom C

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 Fendt, Sarah L. Friedman, Kathryn A. Hirsh-Pasek, Aletha C. Huston, Bonnie K. Knoke, Nancy L. Marshall, Kathleen McCartney, Marion O'Brien, Margaret T. Owen, Deborah A. Phillips, Susan J. Spieker, Deborah L. Vandell, Marsha Weinraub

Discussant: Eleanor E. Maccoby

Submitted Symposium

RICC 552

20SS1 THE STUDY OF EMOTIONS IN NON-VERBAL ORGANISMS

Organizers: Kim A. Bard & Cornie 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

RICC 556

20SS2 THE BEST START FOR PARENTS AND INFANTS: REINTRODUCING DOULA SUPPORT TO TEMPORARY OBSTETRICS

Organizer: John H. Kennell

Companionship in Labour and Adjustment to Parenthood

Beverley Chalmers, Justus Hofmeyr, James McIntyre, Wendy L. Wolman, Szylyvia Csoz & Cheryl Nikodem

Providing a Doula For Middle-Class U.S. Families During Labor

John H. Kennell & Susan K. McGrath

RICC 553

Submitted Symposium**20SS3 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

RICC 554

Submitted Symposium**20SS4 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

RICC 551

Submitted Symposium**20SS5 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 Hellreigel, Sandra

Arnold & Laurent Tao

Discussant: Marian Sigman

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

RICC Ballroom

Poster Session (20PS1)**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.

B1-4 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., Eifer, W. P., Gilliom, M. B. & Gibbs, C.
- B3. Facial Behavior During Sustained Visual Fixation in Newborn Infants
Dondi, M., Simion, F. & Candioli, S.
- B4. Flexibility of Visual Activity in Relation to Head Participation in Full-Term Neonates and Young Infants
Carchon, I.

C1-10 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., Shuttler-Abrener, 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, J. 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.

D1-8 UNIMANUAL AND BIMANUAL REACHING

- D1. The Sequential Organization of Bimanual Actions in Infant Toy Play
Kimmerle, 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, J. 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.

E1-8 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. & Koós, 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. & Bahrick, 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
Trosseth, G. & DeLoache, J. S.
- G3.** Understanding the Object of a Picture
Pierroutsakos, 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
Herner, 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
Trainor, L. J.
- H3. Consonance and the Perceptual Similarity of Simultaneous Complex Tones
Schellenberg, E. G. & Trainor, 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**
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
Bendersky, 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., Pilon, 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., Kilis, E. & Lester, B. M.
- J2. Maternal Characteristics Related to Infant Crying
Cucca, J. A., Andreozzi, L. M., Silverman, N., Boukydis, C. F. Z. & Lester, B. M.
- 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 Behaved Infants: Physiological and Behavioral Responses to a Physical Examination
White, B. P., Gunnar, M. R., Barr, R. G., Hewitt, E., vonWeiss, R., Collins, I. & Pierce, S.
- 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
Porton-Deterne, I., Le Du, A., Jacquet, A.-Y. & Lecanuet, J.-P.
- K2. Effects of Direction and Duration of Maternal Passive Motion on Fetal Reactiveness
Porton-Deterne, I., Jacquet, A.-Y. & Lecanuet, J.-P.
- 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

- K6. Gingras, J., O'Donnell, K., Leatherman, N., Donnelly, K., Norton, J. & Gibney, E.
Predictors of Sleep Behaviors from Six to Twenty-Four Months
- K7. Plunkett, T. S., McCartney, K., Weinraub, M., Becker-Hahn, N. & Hauseman, C.
Early Infant Waking Behavior and Parental Response
- K8. Harkins, D., Wolff, P. H., Throckmorton, K. & Chirieleison, M.
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

Narragansett Ballroom C

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

RICC 551

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

Invited Symposium

RICC 552

20IS5 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

RICC 554

20IS6 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

RICC 553

20SS6 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

RICC 556

20SS7 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. Savelsbergh & J. van der Kamp

The Contribution of Visual Flow Information to Spatial Orientation by 6- and 9-Month-Old Infants

J. Gavin Bremner & Frances Hutton

The Calibration of Walking Without Vision and the Early Development of Spatial Orientation

John J. Reiser & Anne E. Garing

Discussant: George Butterworth

Submitted Symposium

RICC 555

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

Narragansett Ballroom A

20IA1 EXPLORING THE MINDS OF US AND OTHER ANIMALS

Carolyn Ristau

Chair: Kim A. Bard

**SATURDAY, APRIL 20TH
12:30 PM - 1:30 PM**

LUNCH BREAK

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

**IBAD Editorial Board
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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 Korfmacher

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

120 2 250 3 320

SATURDAY PM

Invited Symposium

20IS9 **THE IMPORTANCE OF EARLY EXPERIENCE: A SYMPOSIUM HONORING LEWIS P. LIPSITT** RICC 555

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. Siqueland
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

130-300

Submitted Symposium

20SS9 **THE DEVELOPMENTAL FOUNDATIONS OF THE PERCEPTION AND KNOWLEDGE OF TIME** RICC 556

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

1302

Submitted Symposium

20SS10 **THE CONCEPT OF ATTRACTOR IN INFANT DEVELOPMENT** RICC 553

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

not a reality

Submitted Symposium

20SS11 **INFANTS' UNDERSTANDING OF THE PSYCHOLOGICAL BASES OF HUMAN BEHAVIOR** RICC 552

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

Submitted Symposium

RIJC 551

20SS12 ECOLOGICAL AND COGNITIVIST PERSPECTIVES ON SOCIAL SCAFFOLDING OF EARLY ACTION

Organizer: Julie Rutkowska

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 Rutkowska

Submitted Symposium

RIJC 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 Zavala

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)

RIJC 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

Thoman, E. B., Ariagno, R. L., Boeddikey, M. O., Longford, R. V., Kugener, B., Baldwin, R. B., Fleisher, B. E. & Fine, M. D.

A5. An Introductory Curriculum for Medical Students on Issues in Early Child Development and Early Intervention

Thompson, E., Roberts, W. & Rosenfield, J.

B1-4 PSYCHONEUROENDOCRINOLOGY

B1. Salivary Cortisol in Nursery-Reared Rhesus Monkey Infants

Champoux, M., Gunnar, M. R., Boyce, W. T. & Suomi, S. J.

B2. 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.

B3. 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**
Bogartz, 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**
Hartshorn, 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 Interactivity 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., Eyster, F. D., Behnke, M., Conlon, M., Wobie, K. & Peterson, K. M.
- E4. A Longitudinal Study of Prenatal Cocaine Exposure: 6-Month Outcome**
Behnke, M., Eyster, F. D., Conlon, M., Woods, N. S. & Wobie, K.
- E5. Language Development of Prenatally Drug-Exposed and Non-Exposed Toddlers at High Social Risk**
Beeghly, 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. & Gardner, 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
Platzman, K. A., Coles, C. D., Raskind-Hood, C. L. & Lynch, M. E.

F1-7 ASSESSING DEVELOPMENTAL DELAY

- F1. Evaluation of a Safety Index: Can We Safely Reduce Ophthalmoscopies in ROP-Screening?
Cats, B. P., Schalijs-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. & Brunssen, 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. & Eisert, 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., Schaal, 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
Crepes, 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.
- I1-9 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
Kisilevsky, 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., Stifter, C. A. & Putnam, S. P.
- I5. Fetal and Neonatal Bradycardia: Relation to Respiratory Sinus Arrhythmia
Doussard-Roosevelt, J. A., Reed, S. F. & Porges, S. W.
- I6. Infant Patterns of Heart Rate Variability Parallel Emotional Regulation
Bazhenova, O. V. & Porges, S. W.
- I7. Neonatal Reactivity to the Rhythmicity of Maternal and Non-Maternal Heart Beat
Giovannelli, G., Callegati, I., Farneti, A., Sansavini, A. & Tuozzi, 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., Giannakouloupoulos, 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
White, K. A., Nabors, L. A. & Holden, E. W.
- 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
Ward, M. J., Maloney, H. A., Brathwaite, J., Lee, S., Polan, H. J. & Lipper, E. G.
- K4. Maternal Sensitivity, Infant Temperament, and the Development of Early Feeding Problems
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

Uller, 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. & Lyytinen, H.

SATURDAY, APRIL 20TH

3:00 PM - 4:30 PM

Invited Address

201A2 LANGUAGE AND THE INFANT BRAIN

Elizabeth Bates

Chair: Letitia R. Naigles

Narragansett Ballroom A

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 Feters & 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. Culklin

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 **RICC 552**

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

RICC 553

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

RICC 551

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

RICC 556

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

RICC 550

Submitted Symposium
20SS15 TODDLERS' PRETEND PLAY: PROVIDING A WINDOW ON THE DEVELOPMENT OF METAREPRESENTATION

Organizer: Arlene S. Walker-Andrews

The Development of Pretense Understanding

Ronit Kahana-Kalman, Arlene S. Walker-Andrews & Jennifer Blanchette

Causal Reasoning in Young Children

Paul L. Harris & Robert D. Kavanaugh

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

201A3 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
Goldberg, W. A., Dellis, E., Clarke-Stewart, A., Nagel, S. K. & Zimmerman, C.
- 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
Krampe, E. M., Nelson, C. H. & Fairweather, P. D.
- 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.
- C3. "Look Who's Talking": A Prospective Study of Familial Transmission of Language Impairment
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., Lauretti, 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
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- D7. Marital Attachment Interview Pilot Study
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- D8. Supportive Behaviors of Men and Women During Labor
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- E1-9 CAREGIVER INTERACTION WITH PRETERM INFANTS**
- E1. Behavioral State Organization of VLBW Infants: Effects of Handling Condition and Gestational Age
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- E2. Mothers' Behavior During Joint Attention to Picture Books With Both Full-Term and Very-Prematurely-Born Infants
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- E3. Infants' Positive Affect During *En Face* Exchanges: Effects of Premature Birth, Race, and Social Partner
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- E4. Premature Infants' Preference for and Responsivity to Infant-Directed Speech
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- E5. 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.
- E6. Mother-Infant Interaction in Preterm Infants: Influences of Biological and Environmental Risk
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- E7. Early Preventative Psychotherapeutic Intervention Program for Parents After the Delivery of a Very Small Premature Infant
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- E8. Assessing the Impact of the Prematurity Stereotype on Mother-Premature Infant Interactions Over Time
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- E9. Relationship of Nursing Care to the Development of Sleeping and Waking Behaviors in Preterm Infants
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- F1. Do Infants Show a Preference for the "Least Salient" Object in a Visual Scene?
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- F2. Edge Sensitivity and Temporal Integration in Young Infants' Perception of Object Unity
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- F3. Infants' Use of Support Information in Object Segregation
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- F4. 9.5-Month-Old Infants Use Color and Pattern to Disambiguate a Complex Spatial Layout in an Object Segregation Task
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- G2. The Influence of Neonatal Jaundice on Cognitive Functioning in 6- to 12-Month-Olds
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- G3. Developmental Outcomes in Infants Born to HIV-Positive Women as a Function of Environmental and Medical Risk
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- G4. Ratings of Focused Attention in Relation to Other Clinical Measures for Very Low Birth Weight Infants
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- G7. Neurodevelopmental Outcome of Neonatal ECMO Survivors
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- G8. A Randomized Study of the Effects of Long-Chain Polyunsaturated Fatty Acids on Infant Habituation
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- 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
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- H2. In utero Exposure to Terbutaline: Effects on Infant Behavior and Maternal Self-Esteem
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- H3. Investigation of the Relationship Between Addiction Severity and Mother-Infant Interaction at Four Months
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- H4. 2- to 6-Month Shift from Hypo- to Hyper-Reactivity to Stress in Infants With Prenatal Cocaine Exposure
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- H5. The Effects of *in utero* Substance Exposure on Fetal Reactivity
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- H6. Substance Exposed and Non-Exposed Infants and Toddlers: Their Home Environments in Teaching Interactions (NCATS)
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- H7. A Longitudinal Study of Prenatally Cocaine-Exposed Infants and Matched Controls: Relationship of One Month Blinded Brazelton Assessments (BNBAS) and HOME Scores
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- H8. Relation Between Reported Maternal Caffeine Consumption During Pregnancy and Neonatal State and Heart Rate
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- I1-10 **DEVELOPMENT OF TEMPERAMENT AND EMOTION**
- I1. Antecedents of 3-Year Inhibition: Infant Emotionality and Parenting During Toddlerhood
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- I2. Temperament and Parenting Antecedents of Individual Differences in 3-Year-Olds' Pride and Shame Reactions
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- I3. Changes in Emotionality from Six to Eight Months of Age: The Role of Infant Prohibitions
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- I4. A Dynamic Systems Approach to Toddler Smiles: Smile Type, Action, and Social Interactive Sequences
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- I5. On the Origin of Emotions: The Phenomenon of Emotion Reading
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- I6. Knowledge of Gender-Stereotyped Emotion in 24-Month-Old Children
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- I7. The Influence of Prenatal Experience on Neonatal Differentiation of Vocal Expressions of Emotion
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- I8. Early Events in Children's Lives and Later Morality
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- I9. Temperament and Environment in Infancy: Sibling Contributions to the Development of Fearfulness
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- I10. Developmental Outcomes of Behavioral Inhibition: How Do Inhibited and Uninhibited Children Differ in Their Behavioral Reactions to the Entrance into Kindergarten?
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- J1-8 **PERCEPTUAL DEVELOPMENT**
- J1. Intrauterine Sound Transmission in the Pregnant Ewe and in Rubber Spheres: In Search of a Model
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- J2. Role of Spatial Contiguity in Bobwhite Quail Chicks' Responsiveness to Multimodal Maternal Cues
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- J3. Postnatal Experience With Integrated or Disparate Maternal Cues Affects Inter-Sensory Development in Bobwhite Quail
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- J4. Amount and Type of Prenatal Sensory Stimulation Affects Prenatal Auditory Learning in Bobwhite Quail Chicks
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- J5. Frequency Selectivity in Infants: Comparison of Tuning for Auditory Brainstem Response Waves I and V
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- J6. The Accuracy of Video Tape Analysis of Saccadic Reaction Time as Compared to EOG Measures in 6-Month-Old Infants
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- J7. Vector Summation in Young Infants' Saccade Planning
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- J8. Spatial Frames of Reference in Young Infants' Saccades
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- K1-8 INDIVIDUAL DIFFERENCES IN EMOTION AND TEMPERAMENT**
- K1. Individual Differences in Exploratory Behavior During Infancy
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- K2. Strategies Used by 9-Month-Olds When Confronted by a Novel Object
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- 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
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- 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
DesRosiers, F. S., Tineo, W., Vargas, M. & Knauf-Jensen, D. E.
- K8. Sex- and Age-Related Differences in Terms of Social Proximity in Swedish Infant-Mother Interactions
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- 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
Miceli, P. J., Whitman, T. L., Borkowski, J. G., Braungart-Rieker, J. & Mitchell, D. W.
- L4. Longitudinal Predictions Between Infant Temperament and Parental Sensitivity With Toddler Noncompliance
Braungart-Rieker, J., Garwood, M. M., Powers, B., Wang, X. & Docherty, C.
- L5. Interaction of Parenting Skills and Child's Temperament
Fagot, B., Capaldi, D., Pears, K. & Rundman, D.
- L6** Maternal Sensitivity and the Stability of Infant Temperament
Fitzpatrick, 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
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M1-4, N1-3 TEMPERAMENT AND HEALTH INFLUENCES ON LANGUAGE

- M1.** Relationships Between Language Comprehension and Temperament in 7-Month-Old Infants
Davidson, B. K., Rivera, D., Lewis, R., Celio, S., Golis, D., Gonder, M. L., Dixon, W. E. Jr. & Smith, P. H.
- M2.** Temperamental Mediation of the Relationship Between Child-Directed Speech and Children's Language Acquisition
Dixon, W. E. Jr., Young, C. L., Goshe, 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
Vernon-Feagans, 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.
- N3.** Temperament, Language, and Cognition in Toddlerhood: The MacArthur Longitudinal Twin Study
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

Narragansett Ballroom C

21SS1 ORIGINS AND EARLY DEVELOPMENT OF PERCEPTION-ACTION COUPLING

Organizer: Bennett I. Bertenthal

Self-Exploration in Infancy

Philippe Rochat

Visual Postural Coupling by Neonates

François Jounen

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. Brill

Discussant: Bennett I. Bertenthal

Submitted Symposium

RICC 551

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

Bristol/Kent

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

Sonia W. Masciuch & 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

Newport/Washington

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 Muller & Hellard Rauh

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. Tyrrell

Submitted Symposium

21SS5 **BETWEEN PLEASURE AND EXCESSIVE CRYING: INTERACTIONAL ASPECTS OF INFANTS' BEHAVIORAL SELF-REGULATION** RICC 552

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** RICC 553

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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National Institute of Child Health
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HANDBOOK OF PARENTING

edited by

Marc H. Bornstein

National Institute of Child Health
and Human Development

Stirling permutations on the theme of parenting are emerging — single parenthood, blended families, lesbian and gay parents, and teen versus fifteen first-time moms and dads. Divided into four volumes, the *Handbook of Parenting* is concerned with different types of parents, basic characteristics of parenting, forces that shape parenting, problems faced by parents, and the practical sides of parenting. Contributors have worked in different ways toward understanding all of these diverse aspects of parenting and look to the most recent research and thinking in the field to shed light on many topics every parent has wondered about at one time or another.

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This is the first book to take a critical and serious look at the role of indeterminism in psychological and behavioral development. It reviews the concepts of indeterminism and determinism in their financial, philosophical, and theoretical perspectives — particularly in relation to dynamic systems thinking — and applies these ideas to systems of non-verbal communication. Struggling the indeterminacy inherent in symbols and meaning making in social systems, several chapters address the issue of indeterminism from metaphorical, modeling, and narrative perspectives. Others discuss those indeterministic processes within the individual related to emotional, social, and cognitive development.

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IMAGES OF CHILDHOOD

edited by

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and Human Development

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This book draws attention to the implicit and explicit images of childhood that various disciplines, especially developmental psychology, have constructed. These sometimes unspoken metaphors have enduring value in that they provide a means of drawing together, integrating, and interpreting otherwise disparate findings. And the images of childhood each professional implicitly carries in his/her head vary across historical epochs as they vary across cultures and subcultures. This volume's main objective is to unpackage cultural and historical variations in the conception of childhood in order to make clearer those which might be considered universal aspects of behavioral and psychological development and those which must be seen as temporary cultural constructions or images.

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A View from the Other Side

Cigdem Kagitcibasi

Boz University, Turkey

The culmination of 15 years of research by a Turkish psychologist who was educated in the West, this volume examines both the theoretical and practical aspects of cross-cultural psychology. It takes a contextual-developmental-functional approach linking the child, family, and society as they are embedded in culture. A refreshingly different view, the author presents a portrait of human development from "the other side" — from the perspective of the "majority world." Analyzing human development in context while avoiding the pitfalls of extreme relativism, this work studies development with an inclusive, holistic, and ecological perspective, focusing on the development of the self and of competence. In so doing, it also attempts to combine cultural contextualism with universalistic standards and psychological processes.

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EMOTIONAL DEVELOPMENT IN ATYPICAL CHILDREN

edited by

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Margaret W. Sullivan

Robert Wood Johnson Medical School

Early emotional development, emotional regulation, and the links between emotion and social or cognitive functioning in typically developing children have not received much attention. This lack is due in part to the priorities given to the educational and therapeutic needs of these children. Yet an understanding of the basic emotional processes in children with atypical development can only serve to promote more effective strategies for teaching and intervening in the lives of these children and their families and may contribute to our understanding of basic emotional processes as well.

The editors use the term "emotion" to refer to at least three things — emotional expressions, emotional states, and emotional experiences. The focus of this volume, these three aspects of emotional life are affected by socialization processes, maturational change, and individual biological differences including, in this case, differences in children as a function of disability. Contributors examine the development of emotions in children with organic or psychological disorders as well as those in compromised social contexts.

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SIGNAL TO SYNTAX

Bootstrapping from Speech

to Grammar in Early Acquisition

edited by

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Katherine Demuth

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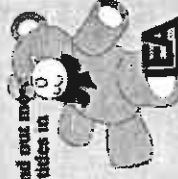
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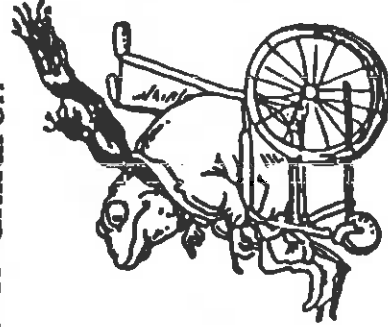


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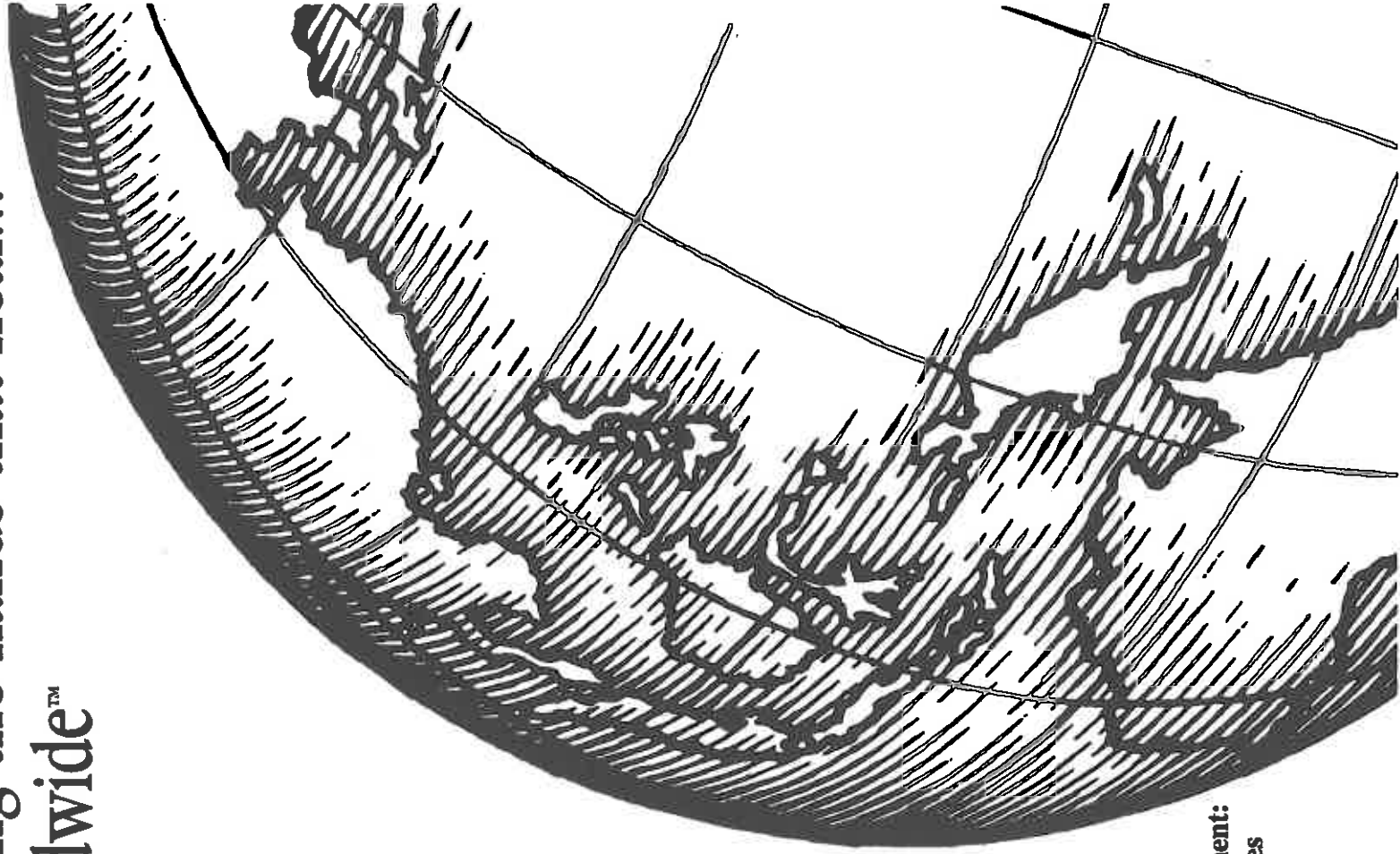


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NOTES

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1996 ICIS Worksheet

THURS. 4/18	Lectures & Events	Symposia & Discussion Sessions	Posters
12:00 PM			
12:30 PM			
1:00 PM			
1:30 PM			
2:00 PM			
2:30 PM			
3:00 PM			
3:30 PM			
4:00 PM	(Starts at 4:15)		
4:30 PM	ICIS Student Awards		
5:00 PM	Presidential Address		
5:30 PM			
6:00 PM	Presidential Reception		
6:30 PM			

FRI 4/19	Lectures & Events	Symposia & Discussion Sessions	Posters
8:30 AM			
9:00 AM			
9:30 AM			
10:00 AM			
10:30 AM	Invited Lecture: Barbara Finlay		
11:00 AM			
11:30 AM			
12:00 PM			
12:30 PM			
1:00 PM			
1:30 PM			
2:00 PM			
2:30 PM	Invited Lecture: Edward Zigler		
3:00 PM			
3:30 PM			
4:00 PM			
4:30 PM	Invited Lecture: Michael Rutter		
5:00 PM			
5:30 PM			
6:00 PM	ISIS Business Meeting		
6:30 PM			
7:00 PM			
7:30 PM	Gala Dinner		
8:00 PM			

1996 ICIS Worksheet

SAT. 4/20	Lectures & Events	Symposia & Discussion Sessions	Posters
8:30 AM			
9:00 AM			
9:30 AM			
10:00 AM			
10:30 AM	Invited Lecture: Carolyn Ristau		
11:00 AM			
11:30 AM			
12:00 PM			
12:30 PM			
1:00 PM			
1:30 PM			
2:00 PM			
2:30 PM			
3:00 PM	Invited Lecture: Elizabeth Bates		
3:30 PM			
4:00 PM			
4:30 PM	Invited Lecture: Jerome Kagan		
5:00 PM			
5:30 PM			
6:00 PM	Reception		

SUN. 4/21	Lectures & Events	Symposia & Discussion Sessions	Posters
9:00 AM			
9:30 AM			
10:00 AM			
10:30 AM			
11:00 AM			
11:30 AM			

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