

*Invited Symposium (cont'd)*

■ REGENCY BALLROOM

Spatial and Temporal Characteristics of Hand-to-mouth Movements in the First Year  
*Gregory Smith*

Changes in the Dynamics of Reaching in the First Year of Life  
*Ronald Zernicke, Klaus Schneider*

Muscle Activation Patterns Underlying Reaching During the First Year  
*John Spencer, Kathi Kamm*

Relations Between Laboratory Measures of Reaching Skill and Behavior in a Natural Setting  
*Michael Schoenly*

*Symposium*

■ MADRID ROOM/VALENCIA WEST

**Mother-Infant Vocal Dialogues Predict Infant Attachment, Temperament and Cognition**

**Chair: B. Beebe**  
 Mother-Infant Vocal Dialogue  
*B. Beebe, J. Jaffe*

Using a Model of Dialogic Time Patterns to Predict Infant Development: Method and Results  
*C. L. Crown, S. Feldstein*

Do Vocal Dialogues of Infants and Depressed Mothers Predict Infant Attachment?  
*J. Jaffe, B. Beebe, S. Feldstein, S. W. Anderson*

Life Span Significance of CIT  
*Rebecca M. Warner*

*Symposium*

■ CASTILLAN ROOM/VALENCIA EAST

**Longitudinal Consequences of Perinatal Stress on Motor and Behavioral Development of Human and Nonhuman Primate Infants**  
**Chair: Mary L. Schneider**

Prenatal Stress in Nonhuman Primates: Behavioral and Physiological Effects  
*Mary L. Schneider*

Impact of Prenatal Cocaine Exposure: Sensory and Motor Development in the First Year of Life  
*Shelly J. Lane, Jan Tona*

Motor and Sleep/Wake Organization in VLBW Infants Receiving Care Designed to Reduce NICU Stress  
*Patricia T. Becker, Patricia C. Grunwald*

Motor Behaviors as Cues to Physiological State: Indicators of Approach and Withdrawal in Preterm Infants  
*Rosemarie Bigsby*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**HIGH RISK INFANTS**

- A1 Parental Stress as a Function of Language Delay and Behavioral Difficulties in Young Low-Birthweight Children  
*V. Barsky, L. Siegel*
- A2 Sensorimotor, Reactivity, and Temperament Functions in High Risk Infants  
*J. Beard, I. Goodman, M. Painter*
- A3 Adolescent Mother's Speech Factors Predicting 20 Month Child Language  
*A. Culp, R. Culp, M. Blankenmeyer, S. Thompson*
- A4 Mental, Motor and Language Development in 26-Month-Old Preterm Toddlers  
*R. Cusson, B. Byrnes, R. Rensburg*
- A5 Home Environment and Perinatal Risk as Predictors of Preschool IQ  
*L. Dilalla, V. Molfese*
- A6 Cognitive Abilities and School Outcome to 8 Years of Age for Prematurely Born Infants with Birthweights <800 Grams  
*J. Edmunds, M. Luther, E. Keith*
- A7 The Relationship Between Phonological Awareness and Reading and Spelling Ability in Small-For-Gestational-Age Children  
*J. Fallon, V. Frisk*
- A8 The Effects of Prematurity on Kindergarten Children's Social Behavior with Peers  
*C. Hamilton, L. Beckwith, L. Phillipsen*
- B1 Early Motor Development in Healthy Preterm Infants  
*D. Hofkosh, J. Smith-Jones, H. Feldman*
- B2 Meta-Analysis of Studies on the Mental and Motor Development of Premature Children  
*J. Ingleby, H. Smit, M. Schols, M. Tanke*
- B3 Socioemotional Development in Romanian Orphans  
*S. Kater, B. Freeman*
- B4 The Relationship Between Prematurity, 18 Month Neurologic Status and 4 Year Sensory-Motor Performance and Behavior  
*S. Lane, C. Altanasio*
- B5 Reflex Maturation and Motor Development in Preterm, At Risk Infants  
*M. Mandich, D. Schmidt, C. Simons, S. Ritchie, M. Mullet, D. Myerberg*
- B6 Sociodemographic Characteristics of Canadian Adolescent Mothers, Infants' Neonatal Assessment and Perinatal Measures  
*J. Moreau, G. Lamarre, G. Jellu, G. Malcuit, A. Pomerleau*
- B7 Early Indicators of Social Problem-Solving Skills in Prematurely-Born 5-Year Olds  
*S. Recchia*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**HIGH RISK INFANTS CONT'D**

- B8 The Impact of Medical Risk & Environmental Factors on Behavioral Adjustment of Low Birthweight Children  
*A. Robson, D. Pederson, B. Evans*
- C1 Cry Analysis as a Predictor of Developmental Outcome  
*C. Sepkoski, M. Corwin, M. Pauker, H. Golub*
- C2 Adolescent Mothers' Perceptions of Infant Emotion and Temperament  
*J. Shapiro, L. Lehn*
- C3 Follow-up Study of Very Low Birthweight Children  
*M. Tanke, J. Ingelby, B. Cais, W. Walters*
- C4 Social Support Network Characteristics as Predictors of Parenting Stress, Satisfaction, and Behavior in Adolescent Mothers of Infants  
*J. Voight, S. Hans*
- C5 3 Year Outcomes of Children who Develop Failure to Thrive During Infancy in a Low Birth Weight Preterm Cohort  
*P. Casey, K. Kelleher, R. Bradley, S. Pope, L. Whiteside, K. Barrett, M. Swanson*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**ASSESSMENT**

- C6 Pediatric Clinical Assessment of Mother Child Interaction: Concurrent and Predictive Validity  
*P. Casey, R. Bradley, K. Barrett*
- C7 Use of Infant Screening Questionnaires by High-Risk and Non-Risk Parents  
*D. Bricker, J. Squires, S. Lamorey*
- C8 Measuring Social Competence in High Risk Three-Year-Olds  
*A. Hogan, K. Scott, C. Bauer*
- D1 The Utility of Standardized Language Questionnaires with High-Risk, Low SES Hispanic Mothers  
*K. Finello, J. Barron*
- D2 Use of the Home Inventory in a Very Low SES Spanish Speaking Sample  
*K. Finello, J. Barron*
- D3 Neurobehavioral Exams as a Tool  
*J. Dehler, R. Goldstein*
- D4 Perinatal Predictors of Brazelton Performance  
*U. Oyenmade, O. Cole, A. Johnson, E. Knight, D. Bonds, G. Nolan, H. Laryea, G. Hill, E. Cannon, L. Westney, S. Jones, C. Edwards*

**Invited Symposium**

■ MEDITERRANEAN ROOM WEST

**Longitudinal Follow-up of Infants of Depressed Mothers**

**Chair: Regina Yando**

Behavioral Adjustment of Preschoolers Born to Depressed Mothers  
*Regina Yando, Claudia Lang, Jeffrey Pickens, Tiffany Field*

The Course and Correlates of Depression in Postpartum Women and Their Influence on Infant Socio-emotional Development  
*Jeffrey F. Cohn, Susan B. Campbell*

From Infancy to Age Five: Maternal Depressive Symptoms, Family Support Services, and Disregulated Infant and Child Behavior Among Low-income Families  
*Karlan Lyons-Ruth*

Early Antecedents of Problem Behaviors  
*Carolyn Zahn-Waxler*

**Symposium**

■ MEDITERRANEAN ROOM CENTER

**An Ecological Approach to the Study of Developmental Transitions**

**Chair: Joseph J. Campos**

— Temperament and Walking Onset: An Unexpected Finding  
*Robert Emde, Berning Jones, Charlotte Henderson*

How Cultural Practices Mediate the Onset of Crawling  
*Rosanne Kernohan, Meng Zhao Lan, Dong Qi*

Infant Willful Autonomy, Maternal Sensitivity, and Dyadic Interactions: Relations to Earlier Versus Later Walking  
*Zeynep Birnben*

The Relation Between Self-Produced Locomotion and Postural Compensation to Optical Flow  
*Carol Higgins*

Self-Produced Locomotor Experience Facilitates Following of Referential Gestural Communication  
*Rosanne Kernohan, Joseph J. Campos, Chen Hong Tu*

**Invited Symposium**

■ REGENCY BALLROOM

**Nathan Learns to Reach: Report of a Longitudinal, Multidimensional Study**

**Chair: Esther Thelen**

From Flapping to Reaching: Kinematics of Single-arm Trajectories Over the First Year  
*Esther Thelen*

Interlimb Coordination During the First Year of Life  
*Daniela Corbetta*

**Poster Session**

**ASSESSMENT CONT'D**

- D5 A Neonatal Health Index for Surviving Premature, Low-Birthweight Infants  
*D. Scott, C. Bauer, H. Kraemer, J. Tyson*
- D6 Use of the Caldwell Home Inventory as Environmental Baseline for the Interpretation of Biological Risk Factors  
*B. Wadleton, K. Maxwell, F. Hunt, W. Burns*

**Poster Session**

**EMOTIONAL DEVELOPMENT**

- D7 Development of Social Emotions and Self-Regulation  
*K. Barrett, D. MacPhee, S. Sullivan*
- D8 Continuity and Change in Regulation During Stressful Situations  
*J. Braungart, C. Siffer*
- E1 The Relationship Between Social Context and the Form of Infant Smiling  
*J. Dedo, A. Fogel*
- E2 Prediction of Assessment Scores From Infants' Expressiveness in Mother-Infant Interaction  
*A. Guillory*
- E3 Indicators of Early Empathy: Evidence From Newborns  
*S. Henry, V. Evertart*
- E4 Cross-Contextual Patterns of Positive and Negative Emotionality in One Year Old Infants  
*J. Mankowitz*
- E5 Transitions Among Max-Specified Discrete and Blended Expressions  
*R. Mattias Jr.*
- E6 Gaze Aversion as a Regulator of Affect in Early Infancy  
*C. O'Boyle*
- E7 Emotional Expressions of Japanese and American Infants in Two "Frustrating" Situations  
*H. Oster, L. Camras*
- E8 Gender Differences in Infant Smiling to Mother and Stranger at Two and Three Months  
*M. Roe, L. Beckwith*
- F1 The Relationship Between Maternal and Infant Facial Display of Emotion During a Cognitive Task at One Year  
*A. Rutter, R. Schwartz*
- F2 Emotional Expression in American Sign Language Narratives  
*D. Spitzer, J. Reilly*

Valerie Corkum  
#104 2155 Monterey Lane  
Hillsdale, N.J.  
630 419

send in 2 activities paper  
(Reel McDougal student)

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**EMOTIONAL DEVELOPMENT CONT'D**

- F3 The Development of Anger in Early Infancy  
*C. Siffer*
- F4 Prereflexes, Posture and the Development of Early Communication  
*Y. van Beek*
- F5 Dimensions of Maternal Empathy and Its Relationship to Child Adjustment  
*L. Walker, S. Preski*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**STRESS, IRRITABILITY AND CRYING**

- F6 The Effect of Prenatal Stress on Neonatal Behavioral Organization Following Fathers' Deployment to the Persian Gulf War  
*P. Chappell, E. Kug, S. Xenakis, G. Angle*
- F7 Relations Between Toddler Coping Strategies, Temperament, Attachment, and Adrenocortical Stress Responses  
*M. Colton, C. Brooks, D. Sorenson, K. Buss, K. Stansbury, M. Harris, M. Gunnar*
- F8 Infant Irritability and Rate of Intro/Extraneous Environmental Change  
*J. Garts, S. Fembach, D. Wallace*
- G1 Is Colic a By-Product of Extrogesitation?  
*E. Peters, D. Gustafson*
- G2 Development of Cry Sounds in the Second Year  
*G. Gustafson, J. Green, D. Dunn*
- G3 Prospective Mothers' Reactivity to Infant Cries: An Ecological-Contextual Perspective  
*H. Hsu, Y. Bryon*
- G4 Infants Crying Excessively: Developmental Changes, Parental Perceptions, and Central Concepts After Fifteen Months  
*P. Hiwanga, A. Schoelmerich*
- G5 Infant Crying and Parental Quality  
*H. Keller, J. Rissau*
- G6 Affectivity and Cortisol Response Differences Between Japanese and American Infants  
*M. Lewis, K. Kawakami*
- G7 Developmental Regulation of Physiologic and Behavioral Response to Pain  
*F. Porter, J. Miller, C. Wolf*
- G8 Parenting in the Marquesas Islands  
*M. Martini, J. Kirkpatrick*

**Invited Symposium**

■ MADRID ROOM/VALENCIA WEST

**Medically Fragile Children Who Fail to Thrive: Theoretical, Research and Clinical Issues**  
**Chair: Edward Goldson**

Failure to Thrive: Another View  
*Edward Goldson*

Organization and Adaptation of the Medically Fragile Infant  
*Heidise Als*

Attachment and Physical Health in Medically Compromised Infants  
*Susan Goldberg*



Early Feeding Behaviors of Preterm Infants with Bronchopulmonary Dysplasia/  
Chronic Lung Disease (BPD)  
*L. Singer, M. Davillier, L. Preuss, B. Wolf, S. Hawkins, T. Yamashita*  
Discussant: *Lewis Leavitt*

**Symposium**

■ CASTILLIAN ROOM/VALENCIA EAST

**New Approaches to the Study of Emotion Regulation**  
**Chair: Wendy S. Grohnick**

Emotional Self-regulatory Strategies, Emotionality, and Parent-Infant Interaction in the Second Year of Life  
*Wendy S. Grohnick, Lisa J. Bridges*

Studies of Emotional Behavior, Temperament, and Adrenocortical Activity in Human Infants  
*Megan Gunnar, Melissa Colton, Kathy Stansbury*

The Activation and Regulation of Emotions  
*Carroll E. Izard*

Contributions of Infant Reactivity and Parenting to the Development of Emotion Regulation in Preterm Infants  
*Judy Garibon*

▲ 6:00-8:00 PM POOLSIDE

**Cocktail Party/Music**

▲ 8:00-12:00 PM STARLIGHT ROOF

**Buffet/Bigband Dance**

*Invited Symposium*

■ MEDITERRANEAN ROOM WEST

**Infant Day Care: Antecedents, Conditions, and Outcomes**

**Chair: Greta G. Fein**

Antecedents of Entry Distress in Day Care Infants and Toddlers  
*Greta G. Fein*

Changes in Teachers and Shifts in Teacher-Child Relationships and Children's Social Competence  
*Carolee Howes*

Preschool and Grade School Follow-up Studies of Children who Participated in Quality Infant Daycare  
*Tiffany Field*

Avoidance in the Service of...  
*Joy Belsky*

*Invited Symposium*

■ MEDITERRANEAN ROOM CENTER

**Primate Models of Immune System-Behavior-Environment Interactions**

**Chair: Gene P. Sackett**

Pre- and Postnatal Influences on Immunological Development in the Young Infant  
*Christopher L. Coe, Gabriele Lubach, William B. Ersler, Christine Erickson*

Social Stress and Individual Behavioral Characteristics Influence Cellular Immune Responses in Cynomolgus Monkeys  
*Joy Kaplan, Sheldon Cohen, Joan Cunick, Eugene Heise, Stephen Manuck, Bruce Robin*

Behavior and Lymphocyte Populations Following Maternal Loss in Infant Pigtailed Macaques  
*Gene P. Sackett and Keiji Teruo*

Individual Differences in Immunological Responses to Environmental Challenge in Rhesus Monkeys  
*Stephen J. Suomi, Kathryn L.R. Rasmussen, James M. Scanlan, Mark Laudenslager*

*Invited Symposium*

■ REGENCY BALLROOM

**New Perspectives in Social and Intellectual Development**

**Chair: Susan A. Rose**

Infant Social Perception Revealed Using the Still-Face Procedure  
*Darwin Muir*

Imitation as a Social-communicative Encounter  
*Andrew N. Meltzoff*

Infancy: The Roots of Cognition  
*Susan A. Rose*

Maternal Perception of Their Developmentally Delayed Infants' Temperament, and Their Own Stress Level Related to Parenting  
*Maria E. Barrera*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**GENDER ISSUES**

- H1 Gender Differences in Infant Social Behavior  
*L. Aydtlett, M. West, E. Leung*
- H2 Infant Gender Influences on Adolescent Mothers  
*M. Barratt, M. Roach*
- H3 Sex Differences in Development of the Ability to Take Possession of Objects Presented Successively in 7-11 Month Old Infants  
*K. Kohwica, G. Michel*
- H4 The Effect of Gender Segregation on Patterns of Early Peer Interaction  
*F. Legault, F. Strayer*
- H5 Developmental and Individual Differences in Categorization: Implications for Early Gender-Role Development  
*G. Levy*
- H6 The Organizational Role of Emotional Availability in Gender Differences in Children's Narratives  
*J. Macfie, L. Mantzsimmons*
- H7 The Development of Gender and Racial Self-Identity  
*S. Marine, P. Katz, E. Downey, K. Ksarsnak, M. Barrett*
- H8 Cross-Gender Patterns in Parents' Perceptions of Their Children: Like Mother Like Son, Like Father Like Daughter  
*N. Winfrey, D. Oppenheim*

*Poster Session*

■ MIRAMAR ROOM

**VISUAL ATTENTION: PATTERNS AND PREDICTIONS**

- A1 Measures of Infant Attention to Aspects of Familiar and Novel Stimuli  
*M. Balaban*
- A2 Cues for Joint Visual Attention in Infants  
*V. Corkum, C. Moore*
- A3 Long and Short Looking Infants Show Differential Reliance on Global and Local Visual Information  
*J. Colombo, L. Freeseaman, J. Coldren*
- A4 The Fagan Test of Infant Intelligence: Predictive Validity for High-Risk Infants  
*J. Fagan, P. Shephard*
- A5 Maternal Scaffolding of Attention During the First Year: When and How?  
*F. Findji, J. Ruel, M.-G. Pechoux*

Poster Session

VISUAL ATTENTION: PATTERNS AND PREDICTIONS CONT'D

- A6 Infant Visual Information Processing as a Predictor of Mother-Infant Interaction  
*L. Groot, E. Lehman*
- A7 The Effect of Visual Deficits on the Fagan Test of Infant Intelligence  
*L. Harline, P. Riddell*
- A8 SES Differences in Stability of Intelligence from Infancy to Middle Childhood  
*B. Louis*
- B1 Reliability of Infant Visual Habituation Parameters as a Function of Fixation Definition & Habituation Criterion  
*D. W. Mitchell, A. Fain, K. Bolomey, T. Standage, J. Gifford*
- B2 A Comparison of Term and Preterm Infants' Attention, Learning, Retention, and Transfer  
*D. W. Mitchell, J. Gifford, J. Colombo*
- B3 The Effects of a Visual Stimulus on Behavioral State and Visual Responsiveness in Preterm Infants  
*A. Marshall-Baker, P. Zeskind*
- B4 Visual Paired Comparisons in Normal and Handicapped Infants Over One Year of Age  
*J. Morrie, M. Kaplan*
- B5 Comprehension of Pointing and Joint Visual Attention: A Longitudinal Study  
*P. Morissette, M. Ricard, T. Gouin-Decarie*
- B6 A Comparison of Habituation/Test Formats in Visual Recognition Procedures for Four-Month-Old Infants  
*B. Rader, T. Schilling, B. Parsons*
- B7 Antecedents of Exploratory Competence at One Year  
*C. Tamis-LeMonda, M. Bornstein*
- B8 Effects of Election of Different Types of Verbal Options on Children's Execution in Conditional Discrimination Tasks  
*O. Tena, M. Dominguez*
- D1 Mothers' Scaffolding and Guidance Discourse: Effects of Exploratory and Problem-Solving Activities  
*K. Troutman, W. Cook, N. Hazen*
- C2 Mothers' Strategies for Directing Infants' Attention  
*H. Walker*
- C3 Combined Measures of Newborn Auditory & Visual Attention as Predictors of Risk Conditions  
*M. Weiss, P. Zelazo, M. St-Germain, D. Stack*

Poster Session

LEARNING

- C3 Learning, Means-Ends Skills and Temperament in Young Infants  
*M.W. Sullivan, D.S. Ramsay*
- C4 Operant Control of the Single Suck in Newborns  
*G.E. Watton, T.G.R. Bower*
- C5 Thinking Ahead: Development of Means-Ends Planning in Young Infants  
*P. Willatts, K. Rosie*
- C6 Two-Year Olds' Ability to Transfer Strategies Across Tasks  
*M.S. Zeedyk, N.M. Peedimutter*
- C7 Representational Flexibility and Response Control in the Second Year  
*P.D. Zelazo, J. Spinzzone*
- C8 Embedded-Rule Use in Sorting, Causality, and Theory of Mind Tasks  
*P.D. Zelazo, T. Palfai, D. Frye*

NOTES ▲

*Baldernoff & Roth Weir*  
*in St. Clare book*  
*validity evidence on*  
*1986 BBL CBQ X*  
*and LOR TAD*

Poster Session

■ MIRAMAR ROOM

**MOTOR DEVELOPMENT CONT'D**

- A5 Treadmill-Elicited Stepping in LBW Infants Born Prematurely  
*D.W. Davis*
- A6 Developmental Differences in Infant Motor Activity: Arms, Legs, and Actometers  
*W.O. Eaton, N.A. McKeen*
- A7 Differential Exploration of Sloping Surfaces in Relation to Development of Crawling Skill  
*M.A. Epler, K.E. Adolph, E.J. Gibson, A. Lax, A. Shahinfar*
- A8 Influence of Social Interaction on Cyclic Motor Activity (CM)  
*N.M. Lailley*
- B1 Coupling of Spontaneous Movement and Visual Attention in Infants  
*S.S. Robertson, L.F. Bacher*
- B2 Fetal Cyclic Motor Activity (CM): Sensitivity to Maternal Glucose Metabolism  
*S.S. Robertson, D.A. Klugewicz, N.M. Lailley*
- B3 Control of Infant and Adult Treadmill Steps  
*B.D. Ulrich, J.L. Jensen, E. Thelen, K. Schneider, R.F. Zernicke*
- B4 The Relation of Weight and State to the Stimulation of Infant Neuromotor Patterns  
*N.B. Zelazo, K. Cohen*
- B5 Cry Threshold Predicts Rhythmical Organization of Neonatal Heart Rate  
*P.S. Zeskind, D.M. Goff*

Poster Session

■ MIRAMAR ROOM

**LEARNING**

- B6 The Effect of Before Selection of Verbal Descriptions of Stimulus Relations upon the Performance in Conditional Discrimination in Children  
*M.L. Cepeda, H. Hickman, F. Morales*
- B7 A "New Improved" Paradigm for Classical Eyeblink Conditioning in Human Infants  
*B.D. Goldman, M. West, B. Lowman, M. Feezor, P. Solomon, M.E. Gracia-Ellison, T. Smith-Banahue, M. Stanton, N. Krasnegor*
- B8 Development of Mastery Motivation and Sense of Agency in Toddlers  
*K.D. Jennings*
- C1 Generalized Match-To-Sample Learning in Human Infants  
*D.J. Tyrrell, K.L. Minard, T.S. Wass*
- C2 Learning and Transfer of Identity/Difference Relationships by Infants  
*J. Tyrrell, M.C. Zingaro, K.L. Minard*

Poster Session

■ MIRAMAR ROOM

**VISUAL ANTICIPATION**

- C4 Infants' Use of Visual Landmarks in Forming Expectations for Complex Sequences  
*D. Arehart, M. Haith*
- C5 A Questionnaire to Assess the Development of Future-Oriented Processes in Infants and Toddlers  
*J. Benson, M. Haith, J. Bihun, E. Lanthier, M. Thomas*
- C6 Stability in Anticipatory Eye Movement Learning from 4 Months to Adulthood  
*A. Cahessy, M. Pasner, M. Rothbart*
- C7 Anticipation in 8-Month-Olds: Divergence of Heart Rate and Head Turn Measures  
*R. Donohue, S. Grossman, W. Berg, M. Krause, L. Garner, A. Boswell, C. Woods*
- C8 The Development of Visual Expectations  
*J. Reznick*

**NOTES ▲**

*Invited Symposium*

■ MEDITERRANEAN ROOM WEST

**New Directions in Infant Memory Research**  
**Chair: Carolyn Rovee-Collier**

- Modifying Infant Memories  
*Kimberly Bolter*
- Negative Affect and Infant Memory  
*Jeffrey W. Fagan*

The Interface Between Memory and Perception  
*Ramesh S. Bhoff*

Evidence for a Memory Network in Infancy  
*C. Robin Timmons*

*Invited Symposium*

■ MEDITERRANEAN ROOM CENTER

**The Infants' Part in Early Interactions**  
**Chair: Alan Fogel**

- Motives and Functions of Infant Communication from Birth Through the First 3 Months  
*Cathryn Trevarthen, Giannis Kugiumutzakis*
- From Coos to Babbles to Meaningful Words: The Infant's Vocal Part in Early Communication  
*Mechthild Papoušek*

The Contribution of Infant Responsivity to the Prediction of Infant Attachment  
*B. Beebe and J. Jaffe*

The Co-Regulation of Early Mother-Infant Interaction  
*Alan Fogel*

*Symposium*

■ REGENCY BALLROOM

**How Parents and Children Co-Construct Narratives About Emotionally Charged Events: Global and Microanalytic Perspectives**  
**Chair: David Oppenheim**

- Co-Constructing the Point of Departure: Parents' Stories of Their Child's Birth  
*Frederick S. Warshawitz, David Oppenheim, Leslie A. Gavin, Robert N. Emde*
- Parents and Children's Co-Constructin of Narratives about Emotionally Charged Events: Relations to Children's Independent Narrative Construction and Socioemotional Adaptation  
*David Oppenheim, Andrew Renouf*

*Poster Session*

**PLAY AND COGNITION**

■ MEDITERRANEAN ROOM EAST

H2 Individual Differences in Novelty Preference and Exploration at Eight Months: Relationships to Safehouse Behavior  
*D.A. Caruso, L. West, H. Hsu, L. Heisterberger*

H1 Toddler Play and the Development of Narrative Skills: Mother Play as Moderating Influence  
*C. Andersson, C.W. Rahn*

H2 Specificity of Infants' Exploratory Actions With Light and Heavy Objects  
*G. Pieraut-Le Bonniec, L. Grespel*

H3 A Step Toward language: The Education of Attention  
*P. Golding (Zukow)*

H4 Mother-Infant Play Behavior as a Predictor of Language Development: A Longitudinal Study from 11 to 24 Months  
*S. Goodwyn, L. Acredolo*

H5 Cross-cultural Effects on Maternal Responsiveness and Subsequent Cognitive Development  
*P.M. Miller, R.A. Le Vine, A.L. Richman*

H6 Parental Language Style and Child Language Development  
*J. Oram, Y. Oshima-Takane*

H7 Executive Capacity in Infant Play: What Does it Tell Us, What Does it Offer?  
*A.M. Sasseville*

H8 Assessing the Development of Choice Through Symbolic Play and Mother-Child Interactions  
*S.R. Sillson, C.G. Harding*

H9 Influence of Maternal Stress During Pregnancy on Antenatal Regulation in Nonhuman Primate Infants  
*M. Schneider, S. Clark*

*Poster Session*

■ MIRAMAR ROOM

**MOTOR DEVELOPMENT**

A1 Actual vs Perceived Possibilities for Toddlers' Locomotion Over Slopes: A Psychophysical Procedure  
*K.E. Adolph, M.A. Epler*

A2 Differential Visual Motion and Infant Postural Control  
*D. Ashmead, M. McCarty, L. Lucas*

A3 Season of Birth and Onset of Locomotion  
*J.B. Benson*

A4 Developmental Changes in Two Types of Interlimb Coordination  
*V. Corkum, P. McDonnell*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**PERCEPTION OF SPEECH AND MUSIC CONT'D**

- F2 Maternal Singing: A Cross-Cultural Comparison  
*S.E. Trehub, A.M. Umyk, B. Arora*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**PERCEPTION OF EMOTION**

- F3 Isolating the Effects of Adult Vocal and Facial Stimulation During Interactions with 4- to 6-Month-Olds  
*Y. Cao, S. Hains, D. Muir*

- F4 Infant Responding to Aberrant Social Stimuli  
*A. Caron, R. Caron, C. Mustelin, J. Roberts*

- F5 Infant Response to Maternal Emotional Expression  
*J. Cassidy, L. Allard*

- F6 Newborn Preference for a Familiar Voice Not Previously Encountered in the Womb  
*K. Kaye*

- F7 Hemispheric Asymmetries in Infants' Discrimination of Emotional Expressions  
*L.C. Klaff, C.T. Best*

- F8 The Role of Acoustic Cues in the Development of Emotional Perception  
*D. Mastropieri*

- G1 Beginnings of Infant Social Responsiveness to Adult Directed Emotions in Speech  
*T. Raag*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**UNDERSTANDING PHYSICAL EVENTS**

- G2 A Model of the Development of Infants' Physical Reasoning  
*R. Bailargeon*

- G3 How Infants Process Physical Causality  
*L.B. Cohen, L.M. Oakes*

- G4 Five-Month Old Infants' Understanding of Collision Events  
*L. Kotovsky*

- G5 What Infants Infer About Hidden Objects and Events  
*K.L. Lucking, L.B. Cohen*

- G6 Young Infants' Use of Appearance in Object Perception  
*A. Needham*

- G7 The Role of Continuity Cues in Infant Causal Perception  
*L.M. Oakes*

**Symposium (cont'd)**

■ REGENCY BALLROOM

The Clinical Eye Focuses On Narratives: Microanalytic Coding of Interaction  
*Judy Reilly, Christy Cervantes, Jennifer Larsen*

**Symposium**

■ MADRID ROOM/VALENCIA WEST

**Language Input and Infant Speech Segmentation: Prospects for Perceptual Bootstrapping in Acquisition**

**Chair: James L. Morgan**

When Does Sensitivity to Prosodic Marking Lead to Syntactic Development?  
*Peter W. Jusczyk, Deborah G. Kemler Nelson*

Prosodic Features and Early Word Recognition  
*Anne Fernald, Gerald McRoberts*

Prosodic Structure and Turn-taking in Mother-infant Dialogues  
*Cynthia Fisher, Hisayo Tokura*

Form Class Distinctions in Early Language Input  
*James L. Morgan*

**Symposium**

■ CASTILLIAN ROOM/VALENCIA WEST

**Neonatal Imitation: When Can It Be Obtained and What Does It Mean?**

**Chair: Moshe Anisfeld**

Neonatal Imitation - What Do We Really Know?  
*Mikael Heimann*

Issues in the Coding of Neonatal Gestures  
*Faith J. Sheiber, Faigi Bandman, Gerald Turkewitz, Susan A. Rose, Moshe Anisfeld*

Placing Imitation Within a Broader Developmental Framework: The Role of Person, Movement, Social-Communication, and Identity  
*Andrew N. Meltzoff, M. Keith Moore*

The Importance of Mechanism for Interpreting Neonatal Matching of Adult Behaviors  
*Susan S. Jones*

**Poster Session****DEVELOPMENT OF SELF CONCEPT**

- A1 Five-Month-Old Infants' Differentiation of Self and Other in Pictures as a Function of Experience  
*K. Bennett, P.H. Smith, T. Laboschewski*
- A2 Relations Between Self-Consciousness and Noncompliance in Toddlers  
*C.A. Brownell, M. Gifford-Smith*
- A3 "Out of the Mouth of Babes": Beliefs About Baby's Early Self  
*P.A. Hrusa*
- A4 Self-Awareness in Social Context During the Second Year  
*H. Leyerou, J. Mdel*
- A5 A Contribution to the Study of Self-Knowledge in Very Young Children  
*P. Venuti, A. Lis*

**Poster Session**

## ■ MEDITERRANEAN ROOM EAST

**CATEGORIZATION**

- A6 Infants' Use of Language to Guide Reasoning About the Object World  
*R.N. Desjardins, D.A. Baldwin*
- A7 Effects of Prototypicality: Parallel Influences on Categorization at the Basic and Global Levels  
*G.A.A. Dow, L. Hertzgard, P.J. Bauer*
- A8 Developmental Changes in Attention to Labeled Events During the Transition to Language  
*C.H. Echols*
- B1 Telling the Barkers from the Chipmunks: Infants Use of Sound in Category Discrimination  
*A.E. Ellis*
- B2 Further Evidence for Perceptual and Functional Categorization in Young Infants  
*V. Kolstad*
- B3 Infant and Center Daycare and Teacher Ratings of Behavior at 8 - 9 years  
*M. Burchinal, D. Bryant, F. Campbell*
- B4 Infant Differentiation of Globally-Defined Categories  
*L. McDonough, J.M. Mandler*
- B5 Perceptual Category Formation in 4-Month-Olds  
*D.S. Moore, M.J. S. Weiss*
- B6 Basic-Level Category Development During the First Half Year of Life  
*P.C. Quinn, P.D. Eimas*
- B7 Parental Labeling and Infants' Early Object Categories  
*D. Poulin-Dubois, L. Sippola*

**Poster Session****PERCEPTION OF SPEECH AND MUSIC**

- D3 Comparisons Between the Chinese and American Attachment Criterion Scores: Using the Waters and Deane's Attachment Q-Set  
*F. Wu*
- D4 18-Month Olds Do Not Prefer Maternal Infant-Directed Over Adult-Directed Speech  
*S. Berman, J. Piston, R.P. Cooper*
- D5 Discrimination of English and Mandarin Discourse Prosody Contrasts by English-Learning Infants  
*C.T. Best, L. Hampe, S. Chiang*
- D6 How Do Prematures React to their Mother's Voice When Talking to Them or to a Stranger?  
*M.C. Bursnel, V. Neyman, O. de Behrman, J.P. Reiller*
- D7 Chinese Infants' Perception of Native and Nonnative Prosodic Contrasts  
*S.Y. Chiang*
- D8 Differential Distribution of Visual Fixation by Infants: Adult-Directed Vocalizations  
*P. Kaplan, E. Huckabay*
- E1 A Comparison of Prosodic Dimensions of Infant-Directed Speech by Adolescent and Adult Mothers to Their 3-Month-Old Babies  
*V. Lacroix, A. Pomerleau, G. Malcuit*
- E2 Prosodic Indicators of Dyadic Communication Among 30-Month-Old Toddlers in an Interactive Play Situation  
*H. Felder, P. LaFerte, J. Mendonca, J. Mdel, I. Martin*
- E3 Comparisons of Prosodic Features in Infant-Directed Speech Between Teenage and Adult Mothers  
*S. Parker-Price, R.P. Cooper, A. M. Culp, R.E. Culp*
- E4 Infants Under 4-Months Prefer Cantonese Infant-Directed Speech: Study  
*J.E. Pegg, J.F. Werker, P.J. McLeod*
- E5 Infants' Discrimination of Novel and Repeatedly Experienced Speech Passages  
*M.J. Spence*
- E6 Syntactic and Prosodic Cues to Word Segmentation in Maternal Speech to Infants: Turkish and English  
*J.Z. Woodward, R.N. Aslin*
- E7 Naturally Good Versus Culturally Good Musical Forms: Evidence from Infant Listeners  
*L.J. Trainor*
- E8 Musical Context Effects in Infants and Adults: Key Distance  
*L.J. Trainor*
- F1 Lullabies: A Cross-Cultural Perspective  
*S.E. Teahub, A.M. Umyk, B. Arava*

Poster Session

■ MEDITERRANEAN ROOM EAST

HIGH RISK CONT'D

- B6 Premature Birth and Security of Attachment in Infant-Mother Dyads at High Socioenvironmental Risk  
*M. Valenzuela, M. Caro, L.M. Calabrese*
- B7 Developmental Milestones Related to Feeding Regimen as Reported in the National Health Interview Survey  
*J. Worobey*

Poster Session

■ MEDITERRANEAN ROOM EAST

ATTACHMENT

- B8 Stability and Predictability of the Attachment Q-Sort  
*Y.M. Caldera*
- C1 An Evaluation of the Reliability of the Attachment Q-Sort  
*C.F. Dedrick, R.F. Dedrick, M. Berlin*
- C2 Maternal Sensitivity in Central American Immigrants: Stability and Security of Attachment  
*M.T. Estrada and M.E. Lamb*
- C3 Paternal Stress, Coping and Attachment in Families with an 18-Month-Old Infant  
*P. Jarvis, G. Creasey, S. Phelps, J. Cockrel*
- C4 Factor Analysis of Ainsworth's Maternal Rating Scales  
*J.A. Heermann and L.C. Jones*
- C5 Mother Sensitivity and Patterns of Infant-Mother Attachment Among Low-Income Families  
*C. Kevonides*

- C6 The Link Between Parents' Scores on a New Measure of Attachment (INVAA: Inventory of Adult Attachment) and Infants' Strange Situation Classifications  
*J.M. Lichtenstein*

- C7 Maternal Sensitivity and Attachment Security: Concordance of Home and Lab Based Measures  
*D.R. Pederson, G. Moran, S. Benito, G. Buckland*
- C8 An Hypothesis-Testing Approach to Prediction of Attachment Classification  
*C. Valley*

- D1 The Stability and Validity of the Strange Situation when Concurrently Measuring Heart-Rate Frequency in Day-Care and Home-Reared Infants  
*E.M. Verweij, F.A. Goossens, W. Koops*

- D2 Why Does Attachment Classification at Age One Not Predict Subsequent Child Outcomes?  
*T.S. Weisner, M. Bernstein, H.E. Garner, C.E. Hamilton, J. Rosenthal*

Poster Session

■ MEDITERRANEAN ROOM EAST

CATEGORIZATION CONT'D

- B8 The Role of Object Parts in the Acquisition of Novel Labels  
*D. Poulin-Dubois, S.A. Graham, A.S. Riddle*
- C1 Degree of Covariation Between Visual Fixation and Auditory Input: Influence on Categorical Responding in 15-Month-Olds  
*K. Roberts*
- C2 The Influence of Words Vs. Tones on Infants' Categorization  
*S.R. Waxman, M.T. Babayan*

Poster Session

■ MEDITERRANEAN ROOM EAST

MOTOR DEVELOPMENT

- C3 Oculo-Cephalic Pre-Coordinated Movements in Pre- and Full-Term Neonates  
*H. Bloch, F. Bassot, I. Carchon, J.P. Lemtie*
- C4 Bimanual Handedness at One Year in Relation to Sonographically Determined Perinatal Brain Injury  
*J.F. Feldman, C. Moon, A. Whitaker*
- C5 Modeling the Dynamics of Infant Manual Activity  
*E.C. Goldfield, B.A. Kay, W.H. Warren Jr.*
- C6 Developmental Shifts in Infant Hand Use: Challenging Gesell's Reciprocal Interweaving Timetable  
*M. Kimmerele*

- C7 Rotational Movement During Reaching in Normal and Cerebral Palsied Infants  
*E.L. Leonard, R.A. Mambucci, R.H. Eckhouse, D.L. Eklason*

- C8 Perceptual-Motor and Emotional Reactions to Objects Changing Location After Initiation of Reaching Movements  
*P. Mouroud, A. Kappas, K.R. Scherer, D. Stern, B. Bernauer, G. Hart, A. Zinetti*

- D1 Posture and Head Orientation Direction Affects Patterns of Manual Coordination in 11-25 Hour Old Human Neonates  
*C.B. Schwartz, G.F. Michel*

- D2 Hand-To-Mouth Behaviors in 5 to 30 Week Old Infants  
*G.A. Smith*

- D3 Hand-To-Mouth Module at 3 to 6 Months  
*J.S. Watson, R. Umarsky, S.H. Marcy*

**ATTACHMENT**

- D4 Infant Attachment and Maternal Motivation for Work  
*S.P. Berger, M.U. Shalowitz, T.R. Gleason, J.D. Shannon*
- D5 Social Competence: Its Relation to Home Environment Among Premature, Low-Birthweight Infants  
*R. Bradley, P. Casey, L. Whiteside*
- D6 Longitudinal Prediction of Child Externalizing Behaviors from Attachment Classification of 18 Months  
*J.M. Eddy, B.I. Fagot*
- D7 Origins of Maternal Role Satisfaction and its Influences Upon Maternal Interactive Behavior and Infant-Mother Attachment  
*R.A. Isabella*
- D8 Quality of Infant-Mother Attachment and Subsequent Toddler-Mother Storybook Interactions  
*D. Knight, D. Comer, J. Mason, J. Giles-Sims*
- E1 Relations Between Mother-Infant Interaction and the Organization of Mastery Motivation in 9- & 12-Month Old Deaf and Hearing Infants  
*R.H. MacTurk*
- E2 A New Look at the Associations Between Temperament and Attachment  
*S.C. Mangelsdorf, J.L. McHale*
- E3 Marquessan Caregiver-Infant Interactions  
*M. Martini, J. Kirkpatrick*
- E4 Maternal and Paternal Reunion Behavior in the Strange Situation  
*S.A. Palmer, K. Tilquist, K. Rodefeld*
- E5 Do Securely Attached Infants Show Higher Mastery Motivation?  
*S.D. Popper, J.F. Cohn, S.B. Campbell, S. Ross*
- E6 Maternal Report of Infant Attachment Security: Measurement Considerations  
*S. Preski, L.O. Walker*
- E7 Mastery Motivation and Attachment in the Second Year  
*L.A. Roggman, J.L. Lee*
- E8 Play, Attention and Attachment in One-Year-Olds  
*L.A. Roggman, M.L. Jennings, A.D. Hart*
- F1 The Relationship of Attachment to the Development of Early Childhood Psychopathology  
*B.C. Rubin, D.A. Mrazek, M. Klinner, K. Young, D. McCormick*
- F2 Assessment of Maternal Interaction Style as a Precursor to Attachment  
*M.M. Schiller, R. Seifer*

**HIGH RISK**

- A1 The Contribution of Maternal Behavioral Scaffolding at One Year to Behavioral Outcome at Two Years in High Risk Infants  
*L.A. Aydtlett, J.A. Hoffheimer*
- A2 Behavioral Assessment of Pediatric Feeding Disorders  
*R.L. Bobbitt, T.A. Hoch*
- A3 Maternal Control in the Second Year of Life: Preterm and Full Term Infants  
*M.S. Barratt, M.A. Roach, L.A. Leavitt*
- A4 Relationship of Early Responsiveness & 1 Year Child Outcomes in Preterm & Full Term Infant-Mother Pairs  
*M. Cansullo, L.M. Baldwin*
- A5 Attachment in Preterm Infants with ICH: Resistant and Disorganized Patterns  
*S.M. Cox, J. Hopkins, W. Heller*
- A6 Mental and Motor Developmental Progress for Three Groups of Premature Infants: The Moderating Influence of Mother-Infant Interactions  
*G.L. Cooney, P.A. Jarvis, B.J. Myers, P.I. Markowitz, K.W. Kerkerling*
- A7 Adult-Infant Interaction in the NICU: Has it Changed and is Health Status Important?  
*F.D. Eyles, N.S. Woods, M. Behnke, M. Conlon*
- A8 Effects of Maternal Attention-Directing Strategies on Preterm Infants' Affective Expressions During Joint Attention Interactions  
*P.W. Garner, S.H. Landry*
- B1 Pica in Children with Plumbism (Lead Poisoning): A Model for Assessing Behavior, Relevant Parent/Family Variables, and Ecological Factors  
*F.M. Hunt, G. Owen, C.R. Johnson, A.J. Omerod, A.H. Suter*
- B2 Cultural Variation in Caregiving Responses to Preterm Infants by Caucasian, African-American, and Hispanic-American Mothers  
*R. Kang, K. Barnard, M. Hammond, S. Oshio*
- B3 Home Observations of Extremely Low Birth Weight Preterm Infants: Maternal Compensation or Overstimulation?  
*J. Mann, J. Plunkett*
- B4 Sleeping Through the Night: Socialization of Sleeping in the Breast-Fed Infant  
*T. Pfaller, L.L. Birch*
- B5 Parent-Child Interaction and Parenting Stress as Predictors of Cognitive Development in Very Low Birth Weight Infants  
*J. S. Stock, K.S. Katz*

*Invited Symposium (cont'd)*

■ REGENCY BALLROOM

Individualized Developmental Care in the NICU: Estimating Expectation for Co-Regulation  
*Heideise Als*

*Invited Symposium*

■ MADRID ROOM/VALENCIA WEST

**Advances in Fetal Research**  
**Chair: William Fifer**

The Effects of Fetal Experience  
*William P. Fifer*

Fetal Sensory Functioning: Auditory Abilities  
*Jean-Pierre Lecanuet*

Cardiac Vagal Tone Monitoring in the Fetus  
*Stephen W. Porges*

Foundations of Perinatology: The Role of Fetal Hormonal and Physiologic Stress Response  
*Eugene K. Emory*

*Invited Symposium*

■ CASTILLAN ROOM/VALENCIA EAST

**Stability and Change in Maternal Representations of Attachment**  
**Chair: Brian E. Vaughn**

Adults' Representations of Attachment, Temperament, and Child Rearing Attitudes:  
A Cross-Sectional Study  
*Gary Resnick, Brian E. Vaughn*

Changes in the Representation of Past and Current Relationships as a Function of the Transition to  
Parenthood and Security of Attachment  
*Miriam Steele, Howard Steele, Peter Fonagy, Anna Higgin*

Stability of the Adult Attachment Interview for Adolescent Mothers  
*Mary J. Ward, Elizabeth A. Carlson, Susannah C. Altman*

Transmission of Boundary Disturbances Across Three Generations  
*Deborah B. Jacobvitz, Molly D. Kretschmar, Holly Burton*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**ATTACHMENT CONT'D**

F3 Maternal Attachment Organization Predicts Mother-Infant Attachment in a Pre-term Sample  
*D.P. Schwartz, M. Dichtreiter*

F4 Discrete "D" Behaviors as Markers of Negative Social Behavior  
*J. Scarff-Sutherland, M. Beeghly, M.K. Weinberg*

F5 Maternal Sensitivity and Infant Temperament as Predictors of Attachment Classification  
*A. Susman, I. Waldman, M. Kalkoske, B. Egeland*

F6 Infant-Mother Attachment and Emerging Social Competence in the Peer Group  
*A. Ware, A. Ruster, M. Tresch-Owen, D. Cross*

F7 5-Year-Olds' Conceptions of Friendship: Links From Infant-Parent Attachment Security  
*L. Youngblade, J. Belsky, S. Bornilla*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**ADULT PERCEPTIONS OF INFANTS**

F8 Factors Accounting for Variance in Maternal Interpretation of Infant Behavior  
*S. Baird, L. Haas*

G1 Chimpanzees Score Well on Bayley Scales of Infant Development  
*K.A. Bard, K.H. Gardner, K.A. Platzman*

G2 Social Inhibition in Infancy: Correspondence Between Laboratory Measures and Maternal Reports  
*A.G. Broberg, M.E. Lamb, M.P. Fracasso, A. Schoelmerich, A. Rosenberg*

G3 Prenatal Parental Expectations of Infant Temperament: Influences of Mood and Personality  
*M. Diener, L. Heim, S. Mangelsdorf*

G4 Students' Perception of Mother-Child Interactions  
*R.J. Englehart*

G5 Parents' Rating of Preterm Infant Behavior as a Function of Infant Health and Sex  
*S. Epps*

G6 Sometimes Handsome is as Handsome Does  
*L. Hubbs-Tait, M. Wierzbicki, D. Grey*

G7 Perception of Infant Temperament: Is it Related to Early Maternal Perception, Mother's Level of Depression or Family Socio-Economic Status?  
*J. Lebeau, G. Malcuit, A. Pomeroy*

G8 Predicting Infant Behavior in the Laboratory: The Contributions of Maternal Personality, Behavior and Perception of Temperament  
*J.L. McHale, L.M. Lehn*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**ADULT PERCEPTIONS OF INFANTS CONT'D**

- H1 Relations Among Observed and Parent Report Measures of Infant Temperament at Infant-Age Six Months  
*M. Morales, C. Cheeks, M. Hurtado, D. Tsai, S.A. Palmer*
- H2 Maternal Sensitivity: Behavior and Cognition  
*L.E. Muir*
- H3 Differences Between Maternal and Paternal Ratings of Their Infant Temperament: The Role of Parental Characteristics and Family Organization  
*C. Piche, R. Tessier, A. Leonard*
- H4 Mediation of Temperament on the Expression of Cognitive Processes  
*S.S. Powell, L.A. Thompson, M. Dove, S.A. Petrill*
- H5 Attention-Shifting in the Laboratory at Five Months as Predictor of Toddler Temperament  
*M.G. Ruddy*
- H6 Infant Temperament can be Reliably Observed; Mothers do not Accurately Report About Their Infants' Temperament  
*R. Saifer, A.J. Sameroff, L.C. Barrett*
- H7 Parental Attitudes, Reactions and Feelings Towards Infant Expressiveness (PARFIE): A New Measure  
*E.C. Tingley*
- H8 Temperament in Chronically Ill Children  
*L. Zahr*

**Poster Session**

■ MIRAMAR ROOM

**INTERMODAL PERCEPTION**

- A1 The Development of Infants' Detection of Arbitrary AudioVisual Relations  
*L.E. Bohrick*
- A2 Groping in the Dark: Infants' Haptic Exploration With and Without Vision  
*E.W. Bushnell, J.P. Boudreau, B. Roder, and N. Weinberger*
- A3 Common Spatial Characteristics of Infant's Auditory and Visual Reaching Space  
*G. Butterworth*
- A4 Recognizing Infants by Touch  
*M. Kaitz, P. Lapidot, S. Sheri, H. Meirav and A.I. Edelman*
- A5 Auditory-Visual Integration in Preterm Infants  
*J. Pickens, T. Nawrocki, D. Soutullo*

**Symposium**

■ MEDITERRANEAN ROOM WEST

**Methodological Issues in the Study of Drug Effects on Infant Neurobehavior as Measured by the NBAS**

**Chair: Dan Griffith**

- Methodological Issues in the Use of the NBAS With Drug Exposed Infants  
*Barry Lester*
- The Brazelton Scale as an Outcome Measure in Studies of Drug-exposed Infants  
*J. Kevin Nugent*
- Multi-sample Confirmatory Factor Analysis of NBAS Data: An Analysis of the Stability of Dimensions of Newborn Behavior  
*Scott Azuma*

**Selective Effects of Different Drugs on Infant Neurobehavior**

*Dan Griffith*

**Symposium**

■ MEDITERRANEAN ROOM CENTER

**Infant Separation Protest, Distress, and Recovery in Day Care and Laboratory Settings**

**Laboratory Settings**  
**Chair: Mary J. Levitt**

- Infants in Group Care: Entry Distress and Recovery  
*Greta G. Fein*
- Separation Difficulties Due to Mismatched Maternal Contingencies  
*Jacob L. Gewirtz*

**Maternal Response Pattern Determines Infant Protests During Departures and Separations**

*Martha Palocz-Noguens*  
*Discussant: Mary J. Levitt*

**Invited Symposium**

■ REGENCY BALLROOM

**The Importance of Touch in Early Infancy**  
**Chair: Heidelise Als**

- Social Contact in Young Nonhuman Primates: Implications for Immunoregulation  
*Mark Laudenslager, Maria Bocca, Martin Reife*
- Massaging High-Risk Infants  
*Tiffany Field*
- Effects of Gentle Human Touch on Preterm Infants: Results From a Pilot Study  
*Lynnda Harrison, Maureen Groer, Mary Anne Modrain-McCarthy, John Wilkinson*

**Poster Session**

■ MIRAMAR ROOM

**HIGH RISK INFANTS CONT'D**

- B2 The Development of Sucking Patterns and Physiologic Correlates in Very Low Birth Weight Infants  
*B. Medoff-Cooper, T. Verklan*
- B3 Effects of Persistent Otitis Media on the Speech and Language Development of Infants  
*P. Menyuk, A. Lukoff, P. Wendler-Shaw*
- B4 Behavioral Cues of Distress/Avoidance in Preterm Infants  
*A.E. Molitor, C.O. Eckerman*
- B5 Maternal Temperament Ratings of the Infant with Myelomeningocele  
*J.D. Morrow*
- B6 Cognitive Development of the Infant with Myelomeningocele  
*J.D. Morrow*
- B7 Biological and Psychosocial Factors Involved in the Development of Children with Congenital Malformations  
*G. Muckle, R. Tessier, C. Piche, R. Lafframboise, L. Lemyre*
- B8 Biological and Environmental Predictors of 18 Month Bayley MDI  
*H.N. Ricciuti, M. Thomas*
- C1 Otitis Media in Early Childhood and Cognitive, Academic, and Behavioral Outcomes at 12 Years  
*J. Roberts*
- C2 Neonatal Responsivity to Pacifier Soothing: Risk and Temperament  
*M.L. Riese*
- C3 The Long-Term Consequences of Prenatal and Postnatal Thyroid Hormone Deficiency  
*J. Rovet*
- C4 Do Appar Constituents Have Equal Prognostic Significance?  
*D.T. Scott, H.C. Kraemer, J. Tyson*
- C5 Maternal Perception of Jaundiced Neonates  
*M. Shahirokh Sharfale*
- C6 Small Premature Infants at Double Risk  
*L. Smith, R. Lindermann*
- C7 Birth Complications in Severely Ill Infants: Relationships with School Age Functioning  
*S. Tanner, S. Valley, W. Burns, T. Dangara, S. Widmayer, L. Peterson*
- C8 Behavioral Response to Pain in Premature and Full Term Infants  
*C. Wolf, M. Smith, J. Philip Miller, F. Porter*

**Poster Session**

■ MIRAMAR ROOM

**INTERMODAL PERCEPTION CONT'D**

- A6 Arbitrary Pairing of Objects and Odors in Four-Month-Old Infants  
*M. Fernandez*
- A7 The Development of Search for People and Objects During the First Year of Life  
*M. Legerstee*
- A8 Infants' Responsiveness to the Audible and Visible Components of Speech  
*D. Lewkowicz*
- B1 Information Status in Intermodal Transfer  
*S. Milner*
- B2 Do Very Young Infants' Hands Process the Third Object Dimension: A Comparison with Vision?  
*M. Molina, A. Streri*
- B3 Visual-Tactile Matching: Perception of Shape as a Function of Efficient Itaptic Exploration and Study Time  
*M. Hernandez-Reif*
- B4 Infants' Bimodal Perception of Adult and Child Faces and Voices  
*D. Soutullo, M. Hernandez-Reif, L.E. Bahrick*
- B5 Five and Thirteen Month Old Infants' Attention to Standard and Discrepant Presentations of Complex Tactile Stimuli  
*D.M. Stack, M. St. Germain, P.R. Zelazo*

**Poster Session**

**PERCEPTION OF FACES**

- B6 Newborn Perception of Thatcherized Faces  
*C. Gunckel, M. Arnold*
- B7 Infants' Differential Sensitivity to 2- and 3-Dimensional Dynamic Facial Displays  
*S. Hains, B. Rehkopf, A. Case*
- B8 Cross Species Recognition in Infant and Adult Humans: ERP and Behavioral Measures  
*P.L. Sargent, C.A. Nelson*
- C1 Infant Facial Expression Categories: Distinct Categories of Expression?  
*N. Soken, A. Plick, M. Bigbee, P. Melendez, S. Unowski*
- C2 Newborn Discrimination of Symmetrical Faces  
*G. Walton, T.G.R. Bower*
- C3 Experts Do Not Differ From Undergraduates and Young Children In Judging Gender From Neonate Faces  
*R.A. Weber*

■ MIRAMAR ROOM

**THEORETICAL AND METHODOLOGICAL ISSUES CONT'D**

**Posters**

**MATERNAL REPRESENTATIONS OF INFANTS AND TODDLERS: THREE APPROACHES AND EMPIRICAL FINDINGS**

- C4 Mothers' Attachment History, Her Representation of the Child Vis-a-Vis Self, and Child Outcome in High Risk Dyads  
*Karen O'Donnell, Luanna McAdams, Carrie Auer, Jeannine Ginzburg*
- C5 Cultural Differences in Maternal Representations of Primary Attachment Relations with Two-year-olds  
*F.F. Sroyer, Manuela Verissimo, Ginzyna Krutko*
- C6 Behavioral Characteristics Associated with Maternal Representations of Primary Attachments for 24- and 30-month old Toddlers  
*Teresa Blicharski, Marta Manikowska, Manuela Verissimo*
- C7 Representations of Caregiving Relationships in Behavior Problem and Normal Preschool Boys and Their Mothers  
*Michelle Daklyn, Marya Endriga, Matthew Speltz, Mark Greenberg*
- C8 Maternal Representations of Attachment in a Sample of Children with Down's Syndrome  
*Brian Vaughn*

**NOTES ▲**

- H5 Observer Agreement and Accuracy in Infant Visual Fixation Research  
*J.J. Janowski, G.D. Levy, R.A. Haaf*
- H6 Comparison of Some Aspects of the Mother-Child Relation from Two Theoretical Points of View  
*A. Lis, P. Verutti, C. Olivetto*
- H7 A Confirmatory Factor Analysis of Newborn Abilities as Measured by the Neonatal Behavioral Assessment Scale  
*K.M. McCallum, S.E. Embretson, F.D. Horowitz*
- H8 Interaction Analysis: Problem of Fixed Window Size  
*J.S. Watson*

*Poster Session*

**HIGH RISK INFANTS**

- A1 Physical Growth and Health of Fullterm, Small-for-gestational Age (SGA) Infants from Birth to 2 Years  
*M. Beeghly, K. Flannery, T.B. Brazelton*
- A2 Assessment of Neurophysiological Function in Low Birthweight Infants With and Without Intraventricular Hemorrhage  
*G. Costo*
- A3 Surfactant Replacement Therapy: IRDS Mortality Down, ROP Up!  
*R. Cots, D. Wittelbol-Post, J. Ternate, N. Schaff-Delfos*
- A4 Predicting Attention 3 years from Neonatal Physiology and at Medical Risk  
*J.A. Doussard-Roosevelt, K.E. Wellner, J.W. Scanlon, K.B. Scanlon, S.W. Porges*
- A5 Length of Neonatal Hospitalization as a Predictor of Longterm Psychoeducational Placement  
*L.N. Eisen, K.G. Scott*
- A6 Mothers and Their Cleft Lip and/or Palate Infants: Face-to-Face Interaction Prior to First Surgery  
*M. Endriga, M. Speltz, K. Wilson*
- A7 Influence of Acidosis, Hypoxia and Hypotension on Motor Outcome in Premature Infants  
*R.F. Goldstein, R.J. Thompson Jr., J.E. Brazzy*
- A8 Effect of Prenatal Heavy Metal Exposure on Childhood Cognitive Skills and Health Status  
*M. Lewis, D.S. Ramsay*
- B1 A Meta-Analysis of Cognitive Consequences of Preterm Birth: The Role of Intracranial Hemorrhage  
*J.A. Mason, D.R. Cross*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**VERBAL AND NONVERBAL COMMUNICATION** CONT'D

- F6 A Further Look at the Relationship Between Categorizing and Naming in the Second Year  
*L. Gershkoff-Stowe, L.B. Smith, L.L. Namy*
- F7 How Children Identify Nouns vs. Verbs  
*R.M. Golinkoff, J. Dizonoff, A. Yaski, K. Hirsh-Pasek*
- F8 Is "Glory" a Noun or an Adjective?: Identifying the Part of Speech of a Novel Word  
*R. M. Golinkoff, T. Mennuti, C. Lengle, G. Herman*
- G1 The Influence of Parental Input on Acquisition of Linguistic Structures by Young Bilinguals  
*N.S. Goodz, M.C. Legare, L. Bilodeau*
- G2 Transfer in Very Young Children's Understanding of Symbolic Relations  
*D.P. Marzoff, J.S. DeLoache*
- G3 Developmental and Environmental Influences in Single Word Language  
*L. McCune, M. Vihman, L. Roug-Hellichius, L. Gogate, D. Delery*
- G4 Mother as Teacher and as Nurturer: Separate Effects on Early Language Ability  
*C.E. Morisset, K.E. Barnard*
- G5 Effects of Birth Order on Early Language Development  
*Y. Oshima-Takane, E. Goodz, J. L. Derevensky*
- G6 Lexical Development and Organization in Bilingual Infants  
*B. Zurer Pearson, S. Fernandez*
- G7 The Grunt as a Gate to Language  
*L. Roug-Hellichius*
- G8 Effects of Time and Situation on Parental Speech to Infants  
*C. Shore, W.E. Dixon Jr., S. Geiger, A. Giffings, J. Bodle*
- H1 Conceptual and Linguistic Biases in Early Word Learners?  
*L.L. Travis, M. Ross*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**THEORETICAL AND METHODOLOGICAL ISSUES**

- H2 A Markovian Analysis of Mother-Infant Interaction at Six Weeks of Life  
*C.L. Crown, D.C. Haspohler*
- H3 The Interactional Co-Regulation Coding System: A First Report on Reliability, Individual Differences and Developmental Changes in the First Three Years  
*A. Fogel, K. L. Dickson, D. Dodd, P. Jameson, E. Matusov, L. McLeod, Daniel Messinger*
- H4 Methods for the Analysis of Longitudinal Categorical Data  
*J.A. Green*

*Invited Symposium*

■ MEDITERRANEAN ROOM WEST

**From Sleeping to Crying: Infant Regulation in Context and Clinical Applications**  
**Chair: Ronald G. Barr**

Sleeping Through the Night: Signalers and Self Soothers  
*Thomas F. Anders*

Crying and Colic: Biobehavioral Effects of Caregiving on State Regulation  
*Ronald G. Barr*

Regulation and Control: Hierarchies of Behavior and Physiology  
*Lewis A. Leovitt*

Colic, Sleep Inertia, Melatonin, and Circannual Rhythms  
*Marc Weissbluth, Linda Weissbluth*

*Invited Symposium*

■ MEDITERRANEAN ROOM CENTER

**The Development of Binaural Hearing**  
**Chair: Rachel R. Clifton**

Spatial Hearing in Human Infants: Sensitivity to Interaural Cues  
*Daniel Ashmead*

Binaural Hearing After Correction of Congenital Loss  
*Lincoln Gray*

Central Correlates of the Development of Binaural Hearing  
*Dan Sanes*

*Invited Symposium*

■ REGENCY BALLROOM

**The Design of Infant Care Environments**  
**Chair: Roger A. Hart**

Special Considerations in Designing for Emotionally Disturbed Infants and Toddlers  
*Roger A. Hart*

Strategies for Designing Inspirational Spaces for Infants, Toddlers and Staff  
*Anita R. Olds*

Patterns for the Design of Infant Care Centers  
*Gary T. Moore*

*Symposium*

■ MADRID ROOM/VALENCIA WEST

**The Contribution of Drug Exposure and Maternal Child Rearing Patterns to the Quality of Attachment and Social Development of Infants**  
**Chair: Elizabeth Anisfeld**

**Symposium (cont'd)**

■ MADRID ROOM/VALENCIA WEST

Attachment Patterns of Infants Prenatally Exposed to Cocaine  
*Elizabeth Ansfield, Irena Mladenijevic, Non Ruesch, Luisa Soto*

Substance Abuse and Maltreatment: Effects on Infants' Environment and Development  
*Angelika H. Clausen, Patricia M. Giffenden*

**Symposium**

■ CASTILLIAN ROOM/VALENCIA EAST

**Temperament and Environment in Infancy**  
**Chair: Doreen Arcus**

Environmental and Biological Correlates of Infant Temperament  
*Dorina Späker, Pamela Kato Kiehanov, Jeanne Brooks-Gunn*

Social Competence with Peers in Irritable Children: A Longitudinal Perspective  
*Dymphna C. van den Boom*

Infant Reactivity, Maternal Style, and the Development of Inhibited and Uninhibited Behavioral Profiles  
*Doreen Arcus, Sherry Gatzner, Carol Anderson*

Genetic and Environmental Influences on Rhesus Monkey Biobehavioral Development:  
A Cross-Fostering Study  
*Stephen J. Suomi, Maribeth Champoux*  
Discussant: *Edward Tronick*

**Student Award Presentations**

■ GRAND PROMENADE

Infant and Mother Interactive Smiles  
*Daniel Messinger*

Infant Learning to Reference Maternal Emotional Cues  
*Martha Peletz-Hogueras*

A Quantitative Analysis of the Acoustic Structure and Functional Significance  
of Infanted Directed Vocalizations  
*Gary Katz*

Electrophysiological Correlates of Object Search Performance During Infancy  
*Martha Ann Bell*

▼ SATURDAY 6-8:00 P.M. POOLSIDE  
*Cocktail Party/Music*

▼ SATURDAY 8-11:00 P.M. CANAL DOCK ACROSS FROM DORAL  
*Cruise Biscayne Bay/ Buffet Dinner Dance*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**SOCIAL REFERENCING**

D7 A Cross-Cultural Study of Mother-Infant Interactional Behaviors in Greece and the USA  
*K.Y. Roe, A. Drivas, A. Roe*

D8 The Generalizability of Social Referencing in Infancy  
*K.L. Collins, S.S. Jones*

E1 Social Referencing and Progenitor Causality  
*S. Desrochers, M. Ricard, T.G. Dacarie, L. Cassette*

E2 Infant Social Referencing in a Naturalistic Setting  
*P.T. DiCiano, D.K. Demeis*

E3 The Impact of Characteristics of Parental Messages on Infant Social Referencing  
*L.J. Knipers, T. Walden*

E4 Emotional Availability: The Visual Effects of A Mother-Toddler Relationship  
*C. Utheford*

E5 Rethinking Social Referencing  
*D.L. Mumme, C. Herrera, A. Fernald*

E6 States of Engagement and Infant Social Referencing  
*T. Ogan, T. Walden*

E7 Infant Social Referencing and Maternal Sensitivity  
*G. Senberg, B. Hagekull, G. Bohlin*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**VERBAL AND NONVERBAL COMMUNICATION**

E8 Symbolic Gestures vs. Words in Early Vocabulary Acquisition  
*L. Acaredo, S. Goodwyn*

F1 Infants' Understanding of Cues to Word Reference  
*D.A. Baldwin*

F2 Form and Function in Gestural Development  
*J. Blake, P. O'Rourke, G. Borzellino*

F3 Facilitating Verbal Discourse Through Nonverbal Coordinated Action  
*S.M. Didow*

F4 Confirming Linguistic Styles  
*W. E. Dixon Jr., C. Shore*

F5 Expressive Language Abilities after a Shared Picture Book Reading Intervention  
in Daycare and Home  
*J.M. Epstein, M. Smith, S.R. Glenn, G.J. Whitehurst, D.S. Arnold*

**Poster Session**

**TEMPERAMENT CONT'D**

- B8 The Heritability of Inhibited Behavior: A Twin Study  
*J.L. Robinson, J. Kagan, R. Corley*
- C1 Temperament, Environment and Q-Sort Measured Toddler Attachment  
*T.D. Wachs, S. Desai*
- C2 A Behavioral Assessment of Infant Temperament  
*C. Garcia Coll, L. Halpern*
- C3 Differential Stability in Maternal Ratings of Infant Temperament  
*J. Warobey, J.K. Muller, V.M. Blajda*

**Poster Session**

**MOTHER-INFANT INTERACTIONS**

- C4 Maternal-Infant Interactions in Puerto Rico  
*C. Garcia Coll, A. Perez-Febles, L. Halpern, M. Nevarez, L. Andreozzi, M. Valcarcel*
- C5 Patterns of Maternal Interactive Behavior Over Age  
*M. Bendersky*
- C6 Alterations in Maternal Behaviors with Changes in Pacing  
*D.M. Butlie, P.A. Self, L.M. Adam*
- C7 The Process of Co-Construction in Early Dyadic Interactions  
*M. da Conceicao, D.P. de Lyra*
- C8 The Ecology of Mother-Infant Interaction in Anglo- and Central-Americans Living in the U.S.  
*M.P. Fracasso*

- D1 The Contextual Pattern of Mother-Infant and Father-Infant Interactions  
*B. Leyendecker*

- D2 Individual Stability in Mother-Infant Interactions Across Naturally Occurring Contexts  
*J. Mann*

- D3 Changes in Responsiveness During Prolonged Mother-Infant Interactions  
*P.J. McLeod, E.C. Parker*

- D4 A Longitudinal Study: Mothers and Deaf Infants  
*K.P. Meadow-Orlans, R.H. MacTurk, P.E. Spencer, L. Sanford Koester*

- D5 Interaction of Behavioral Contributions to the Mother-Infant Dyad  
*P.L. Parks, E.R. Leinz*

- D6 Patterns of Reciprocity in the Play Interactions of Sensitive and Controlling Mothers and Their 12-Month Old Infants  
*C.C. Raver, B.J. Leadbeater*

**Invited Symposium**

■ MEDITERRANEAN ROOM WEST

**Obtaining PHS Research Support: Demystifying the Process**  
**Chair: Victoria S. Levin**

*Co-authors: Sarah L. Friedman, Teresa Levittin, Anita M. Sosiek*

**Symposium**

■ MEDITERRANEAN ROOM CENTER

**Comparative Aspects of Early Parent-Infant Interactions**  
**Chair: Hanus Papousek**

*Melodic Gestures in Maternal Speech to Preverbal Infants: Similarities and Differences Across Species, Languages, Individuals, and Contexts*  
*Mechthild Papousek*

*Maternal Competence in Chimpanzees: What It Is, How To Get It, and Its Effects on the Infant*  
*Kim A. Bard*

*Mother-Infant and Allomother-Infant Communication in Squirrel Monkeys*  
*Maveen Biben*

*Effects of Maternal or Infant Deafness on Early Interaction Patterns*  
*Lynne Sanford Koester*

**Symposium**

■ REGENCY BALLROOM

**Behavioral Inhibition in Toddlers: Biological, Physiological, and Environmental Correlates**  
**Chair: Lisabeth Fisher Dilalla**

*All Inhibited Children are not the Same: Physiological and Behavioral Profiles of Four-Month-Old Infants who Appear Inhibited at 14 Months of Age*  
*Nathan A. Fox, Susan D. Calkins*

*Physiological Predictors of Behavioral Inhibition in the Second Year*  
*Nancy Sridaman*

*Sibling Environment and Genetic Effects on Peer Play Inhibition in 24- and 36-Month-Old Twins*  
*Lisabeth Fisher Dilalla*

*Personality of Parents of Inhibited and Uninhibited Toddlers*  
*Adam P. Matheny, Jr.*

**Symposium**

■ MADRID ROOM/VALENCIA WEST

**New Directions in the Study of Infant Reaching**  
**Chair: Philippe Rochat**

Bimanual Reaching in 5- to 8-Month-Olds: Task Effects and Neuromotor Mechanisms  
*Daniela Corbetta, Esther Thelen*

Infants' Reaching With and Without Vision  
*Rachel Clifton, Daniel Robin, Philippe Rochat*

Posture, Reaching, and the Expansion of Haptic Space in Infancy  
*Philippe Rochat, N. Goubet, S.J. Sanders, A. Bültinger*

■ CASTILLAN ROOM/VALENCIA EAST

**Symposium**

**Longitudinal Studies of Caregivers and Their Very Low Birthweight Infants**  
**Chair: Lynn Singer**

Early Effects of Infant Very Low Birthweight (VLBW) and Chronic Illness on Maternal Psychological Distress

*L. Singer, M. Daviller, P. Bruening, S. Hawkins, T. Yamashita*

Increased Exploratory Responses: Effects of Neonatal Risk and Maternal Behaviors

*S. H. Landry, P. Garner, P. Swank  
 J.W. Plunkett, S.J. Meisels, D. Schwartz, M. E. Bozynski*

Maternal Psychological Adjustment to the Birth of an Infant Weighing  $\leq$  1500 Grams

*R.J. Thompson, Jr., A. T. Cahert, D.A. Johnson*  
 Discussants: *Keith Crnic, Ed Goldson*

**Poster Session**  
**TEMPERAMENT**

■ MEDITERRANEAN ROOM EAST

A1 Does The Behavior of High and Low Reactive Infants Differ in the Home Setting?  
*D. Arcus, S. Rimm*

A2 Genetic Influence on Change in Temperament  
*J.M. Braungart, R. Plomin*

A3 Relations Between Infant Reactivity at 4 Months and Emotional Responsivity at 9 Months  
*S.D. Calkins, N.A. Jones*

A4 The Great Temperament Race  
*A. Clarke-Stewart, W. Goldberg, M. Fitzpatrick*

A5 Relationship of Mother-Infant Interactions to Attractiveness and Temperament Ratings  
*J.W. Cleveland*

A6 Maternal Prenatal Activity, Psychological Adjustment, and Newborn Behavior  
*D. Fisher-Thompson*

A7 The Genetics of Emotional Ontogeny Project  
*H. Goldsmith, A. Winebarger, S. Harmon-Losoya, L. Bowden*

A8 Temperament Ratings of High Risk Infants: Multiple Influences  
*J.M. Helm, S.C. Engelage*

B1 Knowledge of Infant Development and Perception of Infant Temperament in Two Groups of At-Risk Mothers and One Comparison Group  
*M. Julien, G. Malcuit, A. Pomerleau, G. Lamarre, R. Seguin, J. Moreau*

B2 Continuity and Prediction of Aggression  
*K. Keenan, C. Gray, M. Finkelweather*

B3 Mothers and Infants in a Teaching Interaction: Interactive and Temperament Effects  
*M.J. Levitt, N. Guacci, S. Coffman, M.E. Silver*

B4 Motor Arousal, Irritability and Sociability in 4 Month Infants Predicts EEG Asymmetry at 9 Months of Age  
*T.R. Marshall*

B5 Why Children in Some Families are so Different From Each Other  
*C.J. Mebert*

B6 Temperament and Conditioning in 3-Month-Old Infants with Down Syndrome  
*P.S. Ohr*

B7 The Organization of Affects During Toddlerhood: Findings from the MacArthur Longitudinal Twin Study  
*J.L. Robinson, J. Gilbert*

**Invited Symposium (cont'd)**

■ **REGENCY BALLROOM**

Infants of Mothers with Depressive Symptoms: Neurophysiological and Behavioral Findings Related to Attachment Status  
*Geraldine Dawson, Laura Grafer Klinger, Hercules Paragiotides, Susan Spieker, Karin Frey*

Executive Function Deficits in Developmental Psychopathologies: Possible Relations to Social Cognitive Deficits  
*Bruce F. Pennington, Ralph J. Roberts, Jr.*  
*Discussant: Pamela Cole*

**Invited Symposium**

■ **MADRID ROOM/VALENCIA WEST**

**Parenting in Different Cultures**  
**Chair: Mary Marital**  
 Parent-Toddler Interactions in Hawaii: Learning Social and Psychological Preferences  
*Mary Marital*

Parent-Infant Interactions in Urban Indian Families: Are They Changing?  
*Jaipaul L. Roopnarine*

Multiple Simultaneous Relationships Among Efe Forager Infants and Toddlers and Other Adults and Children  
*E. Tranick, G.A. Morelli, P. Ivey*

Paternal Involvement in Caregiving and Mother-Infant Attachment  
*J.K. Nugent, S. Greene, D. Weiczarek-Deering, T. Daly*

**Symposium**

■ **CASTILIAN ROOM/VALENCIA EAST**

**Attachment and Risk in Low-Income Samples: Security and Stability**  
**Chair: Joan I. Vondra, Daniel S. Shaw**

Chronic Family Adversity and Infant Attachment  
*Daniel S. Shaw, Katherine Dowdell Hommerding, Joan I. Vondra*

Infant Attachment Stability in a Low-Income Sample  
*Joan I. Vondra, Katherine Dowdell Hommerding, Daniel S. Shaw*

Temperament and Behavior of Youngsters with Disorganized Attachments: A Longitudinal Study  
*Doug Barnett, Jody Gamiban, Dante Cicchetti*  
 Attachment in Preschool-Aged High-Risk Children  
*Pat Crittenden*

**Poster Session**

**SIBLING AND PEER RELATIONSHIPS**

■ **MEDITERRANEAN ROOM EAST**

A1 The Development of Peer Social Competence as a Function of Maternal Age and Parenting Style  
*E. Brown*

A2 Social Competency and Long-Term Friendship  
*K.L. Droege, C.C. Matheson, C. Howes*

A3 Toddler Conflict Resolution and Maternal Intervention  
*J. Karns*

A4 Early Changes in Sibling Relationships  
*M.J. Mendelson, L.N. Gottlieb*

A5 Imitation as a Process of Construction of Shared Meaning in Peer Interaction  
*M.L. Pedrosa, A. Carvalho*

A6 Peer Interaction Among Infant and Toddler Peers in a Mixed-Age Child Care Setting  
*K.L. Whaley*

**Poster Session**

■ **MEDITERRANEAN ROOM EAST**

**FAMILY ISSUES**

A7 Adjustment of Mothers and Families with Preterm Infants During the Hospital To Home Transition  
*J.H. Asay, K. McCluskey-Fawcett, M. O'Brien*

A8 Psychosocial Issues for Families of Premature Infants Following NICU Discharge  
*S.L. Bell, L. McCune, B. Ostfeld, A. Koors, M. Royot, C. Amato, M. Hiatt, T. Heygi*

B1 Mediators of Relations Between Marital Conflict and Maternal Behavior at 6-Months  
*E. Carnifield*

B2 Relationship of Extremely Low Birth Weight Infant Morbidity Patterns to Maternal Reports of Family Impact During the First Two Years of Life  
*C.J. Criffin, M.E. Bozynski, S.J. Meisels, M. Dichtelmeier, C. Burns*

B3 Maintaining Family Rituals in the Transition to Parenting  
*B.H. Fiese, K.A. Hooker, L. Kotary*

B4 The Coparenting Alliance in the Second Year  
*S. Gable, J. Belsky, K. Crnic*

B5 Pre-Birth Maternal Characteristics During the Transition to Parenthood: The Associations Between Social Support, Life Stress, and Personality  
*L. Heim, M. Diener, K. Humphrey*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**FAMILY ISSUES CONT'D**

B6 The Relationship Between Parents' Marital Adjustment and Behavior Problems in 3-Year-Olds

*M.D. Kinnert, P. Mrazek, D.M. Rosenberg, D. Dunhill*

B7 Cross-Contextual Coherencies Between Couple and Coparenting Dynamics During Infancy

*J.P. Mchale*

B8 Antecedents and Consequences of Cesarean Birth

*C.J. Meber*

C1 The Division of Household Duties and Its Relation to Marital Adjustment and Parental Stress

*G. Moran, D.R. Pederson, L.B. Morris, K.I. Ghesquiere*

C2 How Terrible are the Terrible Twos?

*M. O'Brien*

C3 Identification of Resource and Stressor Variables in the Adaptation of Mothers Following the Birth of Their First Child: Effects on Infant Development at Eight Months

*G.M. Tarabulsky, R. Tessier, C. Piche, G. Muckle, J. Gagnon*

C4 Marital Satisfaction in the Transition to Parenthood: The Influence of Partnership Duration

*H. Wehels, E. K. Beller, M. Stahnke*

C5 When a Baby Dies: Adaptation Following Perinatal Loss

*C.H. Zeand, L. Hirschberg, B. Denis*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**INFANTS WITH SPECIAL NEEDS**

C6 Learning and Emotion in Cocaine-Exposed Infants

*S. Alessandri, M. Sullivan*

C7 Psychological Characteristics of Cocaine-Using Mothers

*R. Arendt, S. Mines, T. Yamashita, R. Kliegman*

C8 Is Early Intervention Appropriate for Drug-Exposed Infants: Comparisons with Other Infants with Developmental Delays

*A. Baxter, R.P. Binkler, L.S. Schutter, H. Summers*

D1 Patterns of Family Functioning and Mother Versus Father Adaptation when the Child has Special Needs

*P. Becker, B. Houser, K. Englehardt*

D2 Longitudinal Patterns of Parent-Child Interaction in Children Born Exposed In Utero to Methadone: Factors Related to Resiliency

*V.J. Bernstein, S.L. Hans*

D3 Perinatal Exposure to Cocaine: Developmental Outcome and Parent-Infant Interaction

*M. Black, M. Schuler*

**Invited Symposium**

■ MEDITERRANEAN ROOM WEST

**High Risk Infant Prevention and Follow-up Programs: What is Meant by Risk?**

**Chair: Jeanne Brooks-Gunn**

Enhancing the Development of LBW, Premature Infants: Defining Risk and Targeting Subgroups in the Infant Health and Development Program

*Jeanne Brooks-Gunn, Cecilia McCarton, James Tomascia*

Risk Assessment in an Urban LBW Intervention Program

*Deborah L. Coates, Barbara A. Kinney, Larry Muenz*

Chronic Lung Disease of Prematurity and Infant Risk Status

*L. Singer, B. Davis, L. Biss, T. Yamashita*

The Role of Biological and Environmental Factors in Cognitive and Socio-Emotional Development of High-Risk and Near-High-Risk Children

*R. Levy-Shiff, G. Enat, R. Krikler*

**Symposium**

■ MEDITERRANEAN ROOM CENTER

**The Behavioral Organization of Premature Newborns**

**Chair: Carol O. Eckerman**

Organization of Sleep Behaviors in Preterm and Term Infants: Comparisons from Three Studies

*Anneliese F. Komer, Nancy M. Lone, Sue Dimiceli*

Temporal Organization of Sleep-Wake States in Preterms

*Diane Holditch-Davis, Lloyd J. Edwards*

The Physiological States and Responses of the Preterm

*William Fifer, Michael M. Myers, Karl Schulze*

Behavioral Responsiveness to Human Speech and Touch Among Very-Low-Birthweight Newborns

*Carol O. Eckerman, Thomas E. Hannan, Jerri M. Gehler, Mandy B. Medina*

**Invited Symposium**

■ REGENCY BALLROOM

**Individual Differences in Brain Functioning and Activity: Implications for the Development of Emotion Regulation and Psychopathology**

**Chair: Nathan A. Fox**

Patterns of Hemispheric Balance and Imbalance Distinguished Among Different Types of Isolated 4-Year-Old Children

*Nathan A. Fox, Kenneth Rubin, Susan Calkins, Timothy Marshall, Robert Coplan*



**Poster Session**

**INFANTS WITH SPECIAL NEEDS CONT'D**

■ MEDITERRANEAN ROOM EAST

- F1 Emotion Expression in Prenatal Cocaine and Normal Infants  
*N. Rounell, L. Abramson, D. Wille*
- F2 Sucking Behavior in Infants Prenatally Exposed to Cocaine  
*K. Sanders-Phillips*
- F3 The Relationship Between Maternal Interactive Behavior in Joint Play, Cooperation and Persistence in Mentally Retarded Children  
*K. Saminski*
- F4 Visual Assessment of Multiply Handicapped Preschoolers Using OPL and FPL  
*E. Schane-Klitsch, E.B. Grier, R.R. Osborne, K. Greggs*
- F5 A Twin Study of HIV Infection in Infancy  
*M.L. Smith, D. Minden, C. Nelsey*
- F6 The Effect of Operant Conditioning on Down Syndrome Children's Search for Hidden Objects  
*M.J. Spence, B. Capf*
- F7 The Caregiving Effort and Satisfaction Scales (CESS): Pilot Study with Cocaine-Using Mothers  
*N.S. Woods, M. Corbin, F.D. Eyer, M. Bernke*
- F8 Cocaine Exposed Children in Foster Care: Descriptive Findings and Policy Implications  
*P.M. Wallace, H.M.E. Becker, K. Kafader*
- G1 Massage Improves the Growth and Development of Preterm Cocaine-Exposed Infants  
*A. Wheadon, F. Sciffi*
- G2 Drug Abusing and Nonusing Pregnant Women: Differences Found for Child Abuse Potential But Not for Other Child-Rearing Attitudes  
*M. Williams-Peterson, B.J. Myers, H. Degen, J. Krusey, S. Schnoll*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**COMPARATIVE AND PHYSIOLOGICAL STUDIES**

- G3 Hemispheric Asymmetry in Infants of Depressed and Non-Depressed Mothers  
*N. Aaron-Jones*
- G4 Effects of Early and Delayed Visual Experience on Intersensory Functioning in Precocial Birds  
*H. Banker, R. Lickliter*
- G5 AB Task Performance Is Related to Frontal EEG Asymmetry Regardless of Locomotor Experience  
*M.A. Bell*

- G6 The Development of Ocular Abnormalities in Ex-Prematures  
*B.P. Cats, N. Schaff-Dellos, C. Barbian*

**Symposium (cont'd)**

■ CASTILLIAN ROOM/VALENCIA EAST

- Communication Among Preschoolers With and Without Disabilities in Same-Age and Mixed-Age Classes  
*Joanne Roberts*
- Relationship Between Age of Peers and Early Child Development: A Longitudinal Study  
*Margaret A. Burchinal*

- Orbis Media Experience in the Same- and Mixed-Age Daycare Classes*  
*Fred Henderson, Al Collier*

**Invited Symposium**

■ MEDITERRANEAN ROOM CENTER

**Contemporary Perspectives on Social Referencing**

**Chair: Jacob L. Gewirtz**

- The Roots of Social Referencing  
*Joseph J. Campos, Rosanne Kemnion*
- Infant Social Referencing as a Learned Process  
*Jacob L. Gewirtz, Martha Pelaez-Mogueras*

- The Scope of Social Referencing in Infancy  
*Saul Feinman*

- Mechanisms of Social Influence in Social Referencing  
*Tedra Walden*

- ▼ 4:00-5:00 PM MEDITERRANEAN ROOM WEST AND CENTER

**Presidential Address**

**Gerald Turkewitz - "Perinatal Influences Shape The Future"**

- ▼ 5:00-6:00PM MEDITERRANEAN ROOM WEST AND CENTER

**ISIS General Business Meeting**

- ▼ 6:00-8:00PM POOLSIDE

**Cocktail Party/Music**

**Invited Symposium**

**The Effects of In Utero Cocaine Exposure on Infant Development**  
 Chair: **Bernard Z. Karmel**

Cocaine Exposure Effects on Early Infant Attention  
*Bernard Z. Karmel, Judith M. Gardner*

Effects of a Comprehensive Intervention on Cocaine-using Women and Their Infants  
*Elizabeth Anisfeld, Lisa Ferrari, Nan Ruesch, Luisa Soto, Deborah Wagner*

Methodological and Theoretical Research Issues  
*Barry M. Lester*

**Invited Symposium**

■ REGENCY BALLROOM  
**Parent Therapy**  
 Chair: **T. Berry Brazelton**

*T. Berry Brazelton*  
*Daniel Stern*

**Invited Symposium**

■ MADRID ROOM/VALENCIA WEST  
**Fetal and Early Infant Stress: Biology and Behavior**  
 Chair: **Anita Miller Sostek**

Stress Related Peptides and Birth Outcomes  
*Curt Sandman, Patrick Wadhwa, Alexandra Chicz-Demet*

Psychosocial Predictors of Birth Outcome in Low Income Women  
*Nancy L. Collins, Christine Dunkel-Schetter, Ruth Zambardo, Susan C.M. Scrimshaw*

Adolescent Mothers and Their Children: Interactive Behaviors and Life Stressors  
*Marilyn J. Asten, Elizabeth R. McNamee*

Families and Stress: Effects of Medication on Infants and Children  
*Keith Cmic*

Discussant: *Anita Miller Sostek*

**Symposium**

■ CASTILLIAN ROOM/VALENCIA EAST  
**Behavioral, Developmental and Health Effects of Same-Age and Mixed-Age Child Care Groupings**  
 Chair: **Don Bailey**

The Social Interactions of Toddlers and Preschoolers in Same-Age and Mixed-Age Mainstreamed Play Groups  
*Don Bailey*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**COMPARATIVE AND PHYSIOLOGICAL STUDIES CONT'D**

- G7 Intra-Ocular Pressure in Children From Birth to Six Years of Age  
*R. H. Duckman, D.E. Fitzgerald*
- G8 Heart Rate During Mother- and Father-Infant Interaction and Temperament  
*R. Fletcher, L. Muir*
- H1 Oxygen Saturation Rates of Very Low Birth Weight Infants Before, During and After a Yawn  
*T.E. Hannan, A.J. Grasso, K.C. Simmons*
- H2 Covariation in Neonatal Autonomic and Social Interaction Patterns Associated with Developmental Outcomes  
*J.A. Hoffheimer, M.H. Lewis, E.E. Lawson*
- H3 Individual Auditory Recognition in Precocial Avian Embryos and Hatchlings: Temporal and Contextual Determinants  
*R. Lickliter*
- H4 Transitional Physiology and State Behavior of Colombian Preterm Infants in Skin-To-Skin (Kangaroo) Care and Open-Air Cribs Beginning in the Delivery Room  
*S. Ludington-Hoe, G. Anderson, H. Rey, L. Agote, B. Hosseini*
- H5 Fractal Dimensionality and Phase Space Analyses of Human EEG in Infants from 7 to 12 Months  
*T.R. Marshall, M.A. Bell*
- H6 Infant Vagal Tone Predicts 3-Year Child Behavior Problems  
*A.L. Portales, J.A. Doussard-Roosevelt, H.B. Lee, S.W. Porges*
- H7 Sibling Interaction Enhances Maternal Auditory and Visual Impairing in Ducklings  
*P.L. Radell, G. Gottlieb*
- H8 Behavioral Characteristics of Children with Angelman Syndrome  
*J. Summers, P. Lynch*

**Poster Session**

■ MIRAMAR ROOM

**VISUAL PROCESSING**

- A1 Perception of Object Length Across Time  
*M.E. Arterberry*
- A2 The Emergence of Sensitivity to Pictorial Depth Cues  
*M.E. Arterberry*
- A3 A New Method to Evaluate Infants' Contrast Sensitivity  
*R.J. Adams, M.L. Courage, M.E. Mercer, J. van Hof-van Duin*

*Poster Session*

■ MIRAMAR ROOM

**VISUAL PROCESSING CONT'D**

- A4 New Evidence for Perceptual Pop-Out in Infancy  
*S. Chazin, R.S. Bhatt, C. Rovee-Collier, S. Weiner*
- A5 Infants' Spatial and Temporal Integration Abilities  
*L.G. Croton*
- A6 The Development of Spatial Analysis in Young Children  
*S.M. Feeney, W.L. Tada, J. Stiles*
- A7 Figure and Ground as Stimulus Context in Recognition Memory with Six-Month-Olds  
*R.A. Haaf, B.L. Lundy, M.M. Faber, L.A. Rigol*
- A8 Spatial Attention in 3-Month-Olds: Inhibition of Return at 10 Degree and 30 Degree Target Eccentricities  
*C. Harman, M.I. Posner, M.K. Rothbart*
- B1 Spatial Efficiency in Infants' Detours  
*J.J. Lockman, T. Greer, G. Sesselman*
- B2 The Effect of Sucking on Infants' Orientation Toward Peripheral Visual Stimuli  
*M.A. Nwabia, D. Maurer, T.L. Lewis*
- B3 Infant Peripheral Visual Stimulus Localization as a Function of Central Stimulus Attention Status  
*J.E. Richards*
- B4 Segmentation of Oriented Textures in Infants: A Comparison of FPL and Habituation Methods  
*C. Rieth, R. Streissnau*
- B5 Longitudinal Assessment of Pictorial Depth Perception in the Infant Pigeotiled Mosaicque  
*P.L. Sargent*
- B6 Global Motion Integration and the Breakdown of Directional Motion (DMAV) Between 3- and 7-Months  
*R. Spitz, D. Kleffner*

*Poster Session*

■ MIRAMAR ROOM

**LANGUAGE**

- B7 In Utero Learning of Native Language Speech Sounds Via the Skin Senses  
*S. I. Borilla*
- B8 Functional Analysis of the Contents of Maternal Speech to Infants of 5 and 13 Months in Four Cultures: Argentina, France, Japan, and the United States  
*M.H. Bornstein, J. Tol, C. Rahm, C. Galperin, M. Pecheux, M. Lamour, H. Axuma, S. Tada, M. Ogino*

*Poster Session*

■ MIRAMAR ROOM

**PLAY CONT'D**

- C2 Indonesian Toddlers' Pretend Play With Their Mothers and Older Siblings  
*J. Farver, S. Winharti, A. Kumara*
- C3 "I'm Gonna Get You": Parental Predecessors of Infants' Pretend Play  
*L. Beizer*
- C4 Social Game Initiator and Mother-Infant Play Behaviors  
*J. Karns, M. Altesee*
- C5 Early Mother-Infant Interaction and Its Relation to Preschoolers' Pretense Play  
*C. Monk, S. Altman, P. Jones, L. Sosa, M. Ward*
- C6 Nonsymbolic and Symbolic Toddler Play: A Gender Analysis  
*K. Painter, A. O'Reilly*
- C7 Family Play Interactions and Cultural Values  
*M. Ramirez, I. Uzgiris*
- C8 Toddler Play Alone With Mother: The Moderating Influence of Mother Play  
*A. O'Reilly, K. Painter*

**NOTES ▲**

**HIGH RISK INFANTS CONT'D**

- A5 Effectiveness of an Early Intervention Model on Development of Chronically Ill Infants  
*K. Katz, J. Pokorni, T. Long*
- A6 Patterns of Reciprocal Interactions in Depressed and Nondepressed Black and Hispanic Adolescent Mother-Infant Dyads  
*B. Leadbeater, C. Raver, A. Carter*
- A7 The Relationship Between Social Support and Postpartum Depression in Mothers of Preterm Infants  
*M. Logsdon, D. Davis*
- A8 A Meta-Analysis of Early Intervention Research  
*N. McKeever, P. Vietze*
- B1 A Training Approach to Assure Developmental Caregiving in Transitional Care Facilities  
*J. Pokorni*
- B2 Developmental Intervention in the NICU: Results of Three Training Programs  
*J. Pokorni*
- B3 Facial Affect and Autonomic Tone in Infants of Depressed and Nondepressed Dyads  
*J. Pickens, T. Field*
- B4 Mother-Infant Interaction In Clinically Depressed Mothers of 2-6 Month-Old Infants  
*S. Ross, K. Jennings*
- B5 Predicting Weight Gain in Preterm Infants Receiving Massage  
*F. Scalfidi, T. Field*
- B6 Low Birthweight Infants and Their Return Rates for Follow-up Care  
*C. Simons, S. Ritchie, M. Mandich-Harris, M. Nulleff*
- B7 Early Intervention & Poor Maternal Interaction Outcomes: What are the Correlates?  
*D. Spiker, J. Ferguson*
- B8 Sequence and Structure of Symbolic Play Between Well and Depressed Mothers and Their Toddlers  
*E. Tingley*

**Poster Session**

**PLAY**

- C1 Individual Differences in Toddlers' Pretend Play  
*J. Farver, K. Jhun, L. Anelli*

**LANGUAGE CONT'D**

- C1 Perception of Synthesized and Natural Speech Sounds by Newborns  
*M. Bower*
- C2 Allophonic Variation and Word Segmentation in Infant Speech Perception  
*E.A. Hohne, P.W. Jusczyk*
- C3 Individual Differences in Rates of Language Acquisition Between 9 and 17 Months  
*R. Kahana*
- C4 Linguistic Experience Alters Speech Perception in Infants by 6 Months of Age  
*P.K. Kuhl*
- C5 Language Specific Influences on Vowel Perception  
*L. Polka, J.F. Werker*
- C6 Early Bilingualism and Cerebral Lateralization in the Period of First Language Acquisition  
*A. Vyt*
- C7 Forward and "Backward" Sounds: Evidence for Speech Processing in the Newborn  
*A. Weintraub*
- C8 A kinematic analysis of the development of creeping in human infants  
*R. L. Freedland, B. I. Bertenthal*

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**NOTES ▲**

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**Symposium**

■ MEDITERRANEAN ROOM WEST

**Current and Future Directions in Infant Developmental Neuropsychology from an Electrophysiological Perspective**  
**Chair: Dennis L. Molfese**

Event-Related Potentials and Visual Information Processing of the Developing Infant  
*Rathe Karer*

The Probe Evoked Potential: A Review of Its Role in the Study of Neurocognitive Development  
*David W. Shucard, Janet L. Shucard*

The Use of Event Related Potentials in the Study of Infant Cognition  
*Charles A. Nelson*

Future Directions in Infant ERP Research: Looking Inside and Looking Ahead  
*David G. Thomas*

What Event Related Potentials Offer to the Study of Infant Language Development  
*Dennis L. Molfese*

**Symposium**

■ MEDITERRANEAN ROOM CENTER

**Rhythmic Vocal Development**  
**Chair: D. Kimbrough Oller**

The Onset of Rhythmic Bobbing in Infants Exposed to Bilingual and Monolingual Environments  
*D. Kimbrough Oller, Vanessa Lewald, Vivian Linhel, Deborah L. Bisinger*

Preodious Vocal Development in Preterm Infants  
*Rebecca E. Eilers, Linda Fishman, Sharise Levine*

Vocal Development in Typically Developing and Down Syndrome Infants  
*Michele L. Steffens, Rebecca E. Eilers, Deborah L. Bisinger*

Phrase-Like Rhythmic Units in Prelinguistic Vocalizations  
*Michael P. Lynch, D. Kimbrough Oller, Michele L. Steffens*

**Invited Symposium**

■ REGENCY BALLROOM

**Effects of Risk Factors on Infant Vulnerability**  
**Chair: Debra Bendell Estroff**

The Prematurity Stereotype: Effects on Mother-Infant Interactions  
*Marilyn Stein, Katherine Karaker, Rochelle Chase, Andrea Meldrum, Sloan Norman*

Effects of Social-Environmental Risk During Infancy on Childhood Competencies  
*Arnold Sameroff*

■ MEDITERRANEAN ROOM EAST

**Poster Session**

**PARENTING CONT'D**

H3 Parental Separation Anxiety: The Impact of Maternal Employment and Paternal Involvement in Child Care  
*D. Wille*

**Poster Session**

■ MEDITERRANEAN ROOM EAST

**MATERNAL DIRECTIVENESS**

H4 The Relationship Between Early Experiences and the Development of Young Children with Visual Impairments  
*J. Dote-Kwan*

H5 Reinterpreting Directiveness in Caregivers' Interactions with Atypical Young Children  
*M. Harney, K. Marfo, P. Schneider, J. Dote-Kwan, M. Klein*

H6 A Longitudinal Examination of Maternal Behaviors in Interactions with Young Developmentally-Delayed Children  
*M. Harney, M. Klein*

H7 Reconceptualizing Maternal Directiveness  
*K. Marfo*

H8 Relations of Child Behaviors and Activity Type to Maternal Directiveness and Sensitivity in Interactions Involving Developmentally Delayed Preschoolers  
*P. Schneider*

H9 The Influence of Labels on 12-month-olds' Category Formation  
*D. Markow, S. Waxman*

**Poster Session**

■ MIRAMAR ROOM

**HIGH RISK INFANTS**

A1 The Effects of Maternal Depression on Neonatal Performance on the Brazelton Scale  
*S. Abrams, M. Prodromidis*

A2 Results of a Randomized Comparison of Early versus Delayed Intervention with Infants with Intrauterine Hemorrhage  
*G. Boyce*

A3 Long-Term Effects of a Neonatal Intervention Program in VLBW Infants: Temperament Development 12-60 Months  
*P. Heiders, B. Cots, E. de Wilde*

A4 Infant Disorganized Attachment and Maternal Depression Predict Language Skills of Children of Teenage Mothers  
*L. Hubbs-Tait, J. Fusco, D. Hann, J. Osofsky, K. Hughes*

**Poster Session**

**PARENTING CONT'D**

■ MEDITERRANEAN ROOM EAST

- F5 A Longitudinal Follow-Up of Preschoolers Born to Depressed Mothers  
*C. Lang, A. Martinez*
- F6 The Influence of Recalled Methods of Parental Control and Experiences of Separation and Loss on the Interpretation of Emotions in Infants by African-American Mothers  
*M. Lewis, O. Harvey, R. Ernde*
- F7 Mothers' Reasons for Day Care Choices  
*C. Matheson*
- F8 Maternal Judgments of Toddler Play Difficulty  
*A. Melsteir-Darmast, C. Tarnis-LeMorada*
- G1 The Effects of Out-of-Home Care on Children's Aggressive and Noncompliant Behaviors  
*M. Proctor-Smith*
- G2 Maternal Continuity & Child Outcomes in Socioemotional Development  
*D. Rosenberg, B. Rubin, D. Mrazek, K. Young*
- G3 Growing Up in Two Socializing Worlds: The Child-Rearing Beliefs of Mothers and Caregivers in Child-Care  
*M. Rosenthal, E. Zilkria*
- G4 A Longitudinal Study of Preschooler's Play: An Examination of Changes in Play Behaviour of Newcomers to the Kindergarten  
*T. Shinn*
- G5 Maternal Experiences Combining Parenting and Employment and Mother-Infant Interactions  
*C. Shuster*
- G6 Infant Day Care Experiences of First-Time Mothers and Fathers: A Comparative Study  
*C. Shuster*
- G7 The Transmission of Cultural Goals: Social Network Influences on Maternal Style  
*M. Solomon*
- G8 A Comparative Study of Parental Modernity  
*S. Stinger, T. Davis*
- H1 To Work or Not To Work: Factors Involved in a New Mother's Decision About Outside Employment  
*D. Symons*
- H2 Politeness or Not? Meanings and Methods for Mothers of Toddlers in Sweden and the USA  
*B. Welles-Nystrom, K. Junefelt*

**Invited Symposium (cont'd)**

■ REGENCY BALLROOM

Maternal Perceptions of Vulnerability  
*Debra Bendell Estroff, David Snyder, Kathleen Burke, Renna Mallias Kaiser*

Parent Perception of Emotion Expression in Children with Autism  
*Marian Sigman, Lisa Capps, Connie Kasari*

**Invited Symposium**

■ MADRID ROOM/VALENCIA WEST

**Mechanisms Mediating Developmental Changes in Visual Attention Systems**  
**Chair: Judith M. Gardner**

Development of Arousal/Stimulus Effects on Visual Attention During Early Infancy  
*Judith M. Gardner, Bernard Z. Karmel*

The Development of the Relation Between Attention Systems in Early Infancy  
*John E. Richards*

Stimulus Novelty and Infant Cognitive-Related ERP Components of the Brain  
*Patrick K. Ackles, Kathryn G. Cook, Holly Hieb Clausen*

**Symposium**

■ CASTILLIAN ROOM/VALENCIA EAST

**Infant Daycare and Developmental/Behavioral Outcomes: The Effects of the Interaction Among Quality of Care, Family Functioning, Illness, and Temperament**  
**Chair: Lynne V. Feagans**

The Effect of Otitis Media and Daycare Quality on Infant/Toddler Attentional Processes  
*Lynne V. Feagans, Elizabeth Kipp, Ingrid Blood*

Infant Day Care and Children's Peer Relations: The Role of the Family Environment, Infant Temperament, and Day Care Quality  
*Brenda L. Volling, Lynne V. Feagans*

Factors at Home and in Infant Day Care that are Related to Language Development at 24 Months  
*Juliet Nuss, Michelle Toma*

The Relationship Between Language Development and Variations in Quality of Infant Daycare  
*Elizabeth E. Manlove, Kristi L. Hannan*

Illness and Temperament as Mediators of Goodness of Fit in Infant Daycare  
*Elizabeth K. Kipp*

Discussants: *Marsha Weinraub and Kathy Hersch-Pasek*



Poster Session

■ MEDITERRANEAN ROOM EAST

MEMORY AND OBJECT PERMANENCE CONT'D

- B7 Infants' Performance on Two Versions of AB: Is Recall Memory A Critical Factor?  
*A. Matthews*
- B8 Young Infants Use Memories in Object Perception  
*A. Needham*
- C1 The Effects of Context Cues and Delay on Infants' Recognition Memory  
*L. Rigal, M. Faber, B. Lundy*

Poster Session

■ MEDITERRANEAN ROOM EAST

PERCEPTION

- C2 An Operant Conditioning Paradigm for Assessing Auditory Temporal Processing in Infants  
*A. Benasich, P. Tallal*
- C3 Differential Lateralization of Auditory Processing in Newborns  
*L. Ecklund-Flores, G. Tuskewitz, D. Edmondson*
- C4 Sound Localization in Neonates: Measurements of Minimum Audible Angle  
*K. Fenwick, G. Chance*
- C5 Prenatal Discrimination of Complex Auditory Stimulations  
*C. Granier-Deferre*
- C6 Fetal Response to Vibroacoustic Stimulation: Influence of Stimulus and Body Weight  
*B. Kisilevsky*
- C7 Changes in MAA Thresholds Under Conditions of the Precedence Effect  
*R. Litovsky-Baum*
- C8 Auditory Sensitivity of Normal Neonates Measured by an Operant Sucking Procedure  
*A. Shoup-Pecenka, N. Bower*
- D1 Infants' Perception of Illusions in Sound Localization  
*B. Marrongiello, L. Hillier, K. Hewitt*
- D2 Infants' Use of Auditory Cues to Judge Distance When Reaching in the Dark  
*B. Marrongiello, L. Hillier, K. Armstrong*
- D3 Newborn Response to Auditory Stimulus Complexity  
*I. Swain*

Poster Session

■ MEDITERRANEAN ROOM EAST

PARENTING

- D4 Developmental Consequences of Infants' Interaction Patterns in Day-Care Centers  
*L. Ahnert*

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**A1** Factors Accounting for Maternal Feelings of Competence and Enjoyment During Infant-Parent Interaction  
*S. Baird, L. Haas, K. McCormick*

**A2** Early Parent-Infant Interactions After Infertility  
*D. Holditch-Davis, B. Harris, M. Sandelowski*

**A3** Infant Smiles During Mother-Child Interactions: A Dynamic Systems Approach  
*S. Holt*

**A4** The Relation Between Maternal Behavior and Infant Coping Skills Across Multiple Situations and Multiple Time Points  
*D. Jones, D. Nikkari*

**A5** Emotional Communication in Mother-Toddler Relationships: Evidence for Early Gender Differentiation  
*C. Little, Z. Biringer*

**A6** Depressed Mothers' Perceptions of Infants Labeled Depressed  
*A. Martinez*

**A7** Offers and Requests Between Infants and Mothers  
*D. Messinger*

**A8** Variability in Adolescent Mother-Child Interactions  
*C. Raeff*

**B1** Neonatal Bathing and Massage Intervention With Fathers, Behavioral Effects 12 Weeks After Birth of the First Baby: The Sunaysia Australia Intervention Project  
*C. Samuels, K. Scholz*

*Poster Session*

■ MEDITERRANEAN ROOM EAST

**MEMORY AND OBJECT PERMANENCE**

**B2** After 8-Months Have Passed: Memory for Specific Events by 1to 2-Year Olds  
*P. Bauer, L. Hertzgard, G. Dow*

**B3** Effects of Hiding Procedure on Infant Search Performance  
*K. Behrendt*

**B4** The Development of Person and Object Permanence Using Similar Hiding Procedures  
*A. Bigelow, L. Macdonald*

**B5** 9- and 5- Month-Olds Do Not Make the AB Error if not Required to Manipulate Objects  
*R. Lecuyer, I. Abagueuen, C. Lemaire*

**B6** Infant Recall Memory and Anticipatory Activity: Effects and Use of Bimodal Cues  
*T. Loboschewski, P. Huff-Smith, K. Bennett*

*Invited Symposium*

■ REGENCY BALLROOM

**Biology and Social Behavior**  
**Chair: Michael Lewis**  
 Infant Reactivity as a Function of Biology and Experience  
*Michael Lewis*

An Epigenetic Approach to Emotional Development  
*Joseph J. Campos*

Emotional Expressions and Physiological Responses of "Depressed" Infants During Early Interactions  
*Tiffany Field*

Neonatal Assessments of Individual Differences in Rhesus Monkey Physiology and Temperament: Genetic and Environmental Influences and Long-term Consequences  
*Stephen J. Suomi*

*Symposium*

■ MADRID ROOM/VALENCIA WEST

**Early Emotional Self-Regulation: New Approaches to Understanding Developmental Change and Individual Differences**  
**Chair: Lisa J. Bridges**

\* Emotional Self-Regulation as a Central Organizing Construct in Infancy  
*Lisa J. Bridges, Wendy S. Grohnick, James P. Connell*

— Fear as a Control System  
*Mary K. Rothbart, Karen Hershney*

Boys and Girls: Sex Differences in Emotional Expressivity and Self Regulation During Early Infancy  
*M. Katherine Weinberg*

— The Links Between Emotions and Compliance Among Toddlers and Young Preschoolers  
*Claire B. Kopp*  
*Discussant: Hill Goldsmith*

*Symposium*

■ CASTILLIAN ROOM/VALENCIA EAST

**Maternal Self-Efficacy and Developmental Outcomes**  
**Chair: Andrea Davis and Barry Lester**

A Longitudinal Model of Maternal Confidence and Maternal Health during Toddlerhood  
*Deborah Gross, Barbara Conrad*

Maternal Self-Efficacy and Maternal Behavioral Competence with Infants  
*Douglas M. Teti, Donna M. Gelfand*

Maternal Self-Efficacy: Integrating Physiology, Perceptions, and Behavior  
*Wilberta Donovan*

Maternal Self-Confidence and Overconfidence: Self-Perception of Interactive Competence  
*Andrea Davis, Barry Lester*  
*Discussant: Susan Goldberg*

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*Invited Symposium*

■ MEDITERRANEAN ROOM WEST  
**Randomized Controlled Trials with Preterm Infants Before, During, and After the NICU**  
**Chair: Gene Cranston Anderson**

Effects of Waterbeds on Preterm Infants: Overview of Six Randomized, Controlled Studies  
*Anneliese F. Korner*

Individualizing Intervention for Premature Infants  
*Evelyn B. Thomson*

Life After Discharge: Issues from Follow-up of Preterm Infants and Post-Discharge Preventive Interventions  
*Kathryn E. Barnard*

Skin-to-Skin (Kangaroo) Care for Preterm Infants: Balancing High Technology with Natural Care  
*Gene C. Anderson*

*Invited Symposium*

■ MEDITERRANEAN ROOM CENTER

**Cognitive Development and Learning Processes of Infants**  
**Chair: Lewis P. Lipsitt**

The Nature of Expectations in Early Infancy  
*Marshall M. Haith*

Cognition in the Service of Learning  
*Andrew N. Meltzoff*

Relating Cognition and Learning to Information Acquisition  
*Carolyn K. Rovsee-Collier*  
 Discussant: Lewis P. Lipsitt



Tiffany Field, Chair  
Jacob Gewirtz, Co-Chair  
Tere Calcines, Admin. Assistant

## PROGRAM

Jeff Pickens  
Maggie Prodromidis  
Taria Raag  
Frank Scaffidi

## LOCAL ARRANGEMENTS

Ketty Gonzalez  
Jeanette Gonzalez  
Nini Gonzalez  
Nancy Grizzle  
Jeff Harding  
David Lasko  
Alex Martinez  
D. Kimbrough Oller  
Martha Pelaez-Nogueras  
Debbie Schlies  
Marilyn Segal  
Abbie Wheaden

## REVIEW panels

### EMOTIONAL DEVELOPMENT

#### Nathan Fox, Chair

Jack Bates  
Susan Calkins  
Pamela Cole  
Geraldine Dawson  
Janet DiPietro  
H. Hill Goldsmith  
Megan Gunnar  
Timothy Marshall  
Nancy Snidman  
Cynthia Stifter  
Ross Thompson  
Brian Vaughn  
Ted Wachs

### SOCIAL DEVELOPMENT

#### Michael Lewis, Chair

Margaret Bendersky  
Douglas Ramsay  
John Warobey

### COGNITION

#### Lewis Lipsitt, Chair

Leslie Cohen  
Catherine Echols  
Wendell Jeffrey  
Peter W. Juszczyk  
Patricia Kuhl  
Andrew Meltzoff  
Klaus Minde  
Carolyn Rowe-Collier

### PERCEPTION

#### Rachel Clifton, Chair

Daniel Ashmead  
George Butterworth  
Rick Canfield  
Marsha Clarkson  
John Colambo  
Marshall Haith

### PERCEPTION (CONT'D)

Darwin Muir  
Eve Perris  
Herb Pick  
Sandra Shea  
Alan Slater

### MOTOR DEVELOPMENT

#### Esther Thelen, Chair

Janette B. Benson  
Eugene Golfield  
Claes van Hofsten  
Herbert L. Pick, Jr.  
Steven S. Robertson  
Philippe Rochat  
Beverly D. Ulrich

### PHYSIOLOGICAL

#### Judy Gardner, Chair

Megan Gunnar  
Bernard Karmel  
David Lewkowicz  
Charles Nelson  
Fran Porter  
John E. Richards

### HIGH RISK

#### Anita Sostek, Chair

Sarala Cohen  
Keith A. Crnic  
Lynne V. Feagans  
Penny Glass  
Edward Goldson  
Rathe Karrer  
Kathy S. Kaiz  
Barry M. Lester  
Cecelia McCartney  
Susan A. Rose  
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Philip Sanford Zeskind

We are grateful for the generous contributions of *Walker Johnson (Ablex)* and *Johnson & Johnson Consumer Products, Inc.*

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**New Features**

- Shorter days were scheduled by popular demand so people have more time for interacting, sun and surf and touring
- 3 hr. Poster Sessions were scheduled to enable people to do 2 things at once (attend a 2-hour symposium and a simultaneous poster session). That does not mean that you have to remain 3 hours standing by your poster but simply your poster remains in place for 2 hrs. 50 min.
- Five minutes/one slide presentations are available for those who didn't submit a paper in time. If you want to participate you need to send us a title for your 5 min. presentation by May 1. These will be held in Grand Promenade.
- Student Award Presentations will occur on Sat. (12:1:50) in the Grand Promenade.

**Presidential Address by Gerald Turkewitz**

(Thurs. 4-5) and Business meeting (Thurs. 5-6) in Mediterranean Room West and Center.

**Social Events**

**Cocktails/Hors D'oeuvres/Quartets**  
Wed, Thurs, Fri & Sat 6-8 Poolside  
**Big Band Dance/Buffer**- Fri 8-12 The Starlight Roof (\$30.00)

**Biscayne Bay Boat Trip/Buffer/Dance Band** - Sat 7:30 - 11 Canal dock in front of Doral Hotel (\$30.00)

**Jimmy Transportation** available in front of hotel at 8 pm for rides to South Beach restaurants. Restaurant and cultural event listings available at registration desk and at tour desk in the lobby.

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**Airfare Discount**

American Airlines offers a 5% - 40% discount to ICIS attendees. Call CMI for airline tickets at (800) 344-3582 (USA), (800) 330-6667 (FLA), or (305) 446-5411 (Direct).

**Transportation from Airport to Hotels**

**CLUB LIMOUSINE** (893-9850 Larry Proccaccini) are indicated by uniformed personnel with a sign (\$18/person round trip, gratuity included).

**SUPER SHUTTLE** (871-2000) indicated by employees wearing blue shirts with yellow signs (super shuttle) and white pants (\$11/person one way).

**CABS** (888-8888 and 444-4444 \$15 one way). Maximum # of passengers is 5/cab.

**Registration**

lobby/Grand Promenade - Thurs. (8-4), Fri. (8-4), Sat. (8-noon)

**Lounge Areas**

are Grand Promenade and Oceanview lounge on 1st floor and Balcony second floor as well as lounge areas next to windows in poster sessions rooms.

**Conference Abstracts/Book Exhibit**

Regency Conference Room

**Babysitting Services**

can be arranged with the hotels.

**Tough Research Institute Symposium and Reception.**

May 6 in the Mediterranean Room, Doral

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POSTER TIME	thurs.	fri.	sat.	sun.
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8:00 - 10:50	HIGH RISK (A-B)			
11:00 - 1:50	MOTOR DEVELOPMENT (A-B) LEARNING (B-C)			
8:00 - 10:50	VISUAL ATTENTION (A-C) VISUAL ANTICIPATION (C)			
11:00 - 1:50	INTERMODAL PERCEP (A-B) PERCEP. FACES (B-C) MATERNAL REPRESENTATIONS (A-D)			
8:00 - 10:50	VISUAL PROCESSING (A-B) LANGUAGE (B-C)			
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SYMPOSIA TIME	MEDITERRANEAN ROOM WEST	MEDITERRANEAN ROOM CENTER	REGENCY BALLROOM	MADRID/VALENCIA WEST	CASTILLIAN/VALENCIA EAST
10:00 - 12:00	ISIS BOARD MEETING BRUNCH - OCEAN LOUNGE				
12:00 - 1:50	Neo Intervention (Anderson)	Cognition (Lipstitt)	Biol. & Soc. Behavior (Lewin)	Emot. Self Reg. (Bridges)	Maternal Self-Effic. (Davis/Lester)
2:00 - 3:50	Drug Effects (Karnel)	Social Refer. (Gewirtz)	Parent Therapy (Brazelton/Stem)	High-Risk (Sostek)	Child Care (Bailey)
4:00 - 5:00	PRESIDENTIAL ADDRESS - GERAUD TURKEWITZ "PERINATAL INFLUENCES SHAPE THE FUTURE"				
5:00 - 6:00	BUSINESS MEETING				
6:00 - 8:00	COCKTAIL PARTY / MUSIC • POOLSIDE • DINNER ON THE TOWN TO FOLLOW				
8:00 - 12:00	High-Risk (Brooks-Gunn)	Perinatal Newborns (Eckerman)	Brain & Emot. Reg. (Fox)	Parenting Diff. Cult. (Martini)	At-risk, Low Income (Vondra/Shaw)
10:00 - 11:50	Drug Effects Newborn (Griffith)	Sep. Protest (Fein)	Touch (Als)	Fetal Research (Fifer)	Mat. Repr. Attach. (Vouhyn)
12:00 - 3:50	Daycare (Fein)	Primate Models Immun. Syst. (Sackett)	Soc. & Intel. Dev. (Rose)	Failure to Thrive (Goldson)	Emot. Reg. (Golnick)
6:00 - 8:00	COCKTAIL PARTY / MUSIC • POOLSIDE				
8:00 - 12:00	BUFFET / BIG BAND DANCE • STARLIGHT ROOF				
8:00 - 9:50	Depressed Ms (Yando)	Dev. Transf. (Carpas)	Reaching (Thelen)	Mt Vocal Dialogues (Beebe)	Perinatal Stress (Schneider)
10:00 - 11:50	Memory (Kover-Calder)	Mt Interac. (Fogel)	Co-Construct. Narr. (Oppenheim)	Language Input (Worgan)	Neonatal Intic. (M. Anisfeld)
12:00 - 1:50	Vegetative Problems (Bom)	Binocular Hearing (Clifton)	Infant Environ. (Hart)	Drugs&Child Rearing (E. Anisfeld)	Temperament & Env. (Arcus)
6:00 - 8:00	COCKTAIL PARTY / MUSIC • POOLSIDE				
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8:00 - 9:50	Research Support (Levin)	Parent Inter. (Popousek)	Inhibition (Dikalo)	Reaching (Kochat)	Low Birth Wt. Is (Singer)
10:00 - 11:50	Evoked Potentials (Molfese)	Rhythmic Voc. Dev. (Oller)	Vulnerability (Bendell-Estroff)	Visual Attention (Gardner)	Daycare (Feagans)



8<sup>th</sup>



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MIAM

MAY

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DORA

