International Conference on Infant Studies

10-13 April 1986
Los Angeles, California
The goal of the fifth International Conference on Infant Studies, like that of the preceding four conferences, is to provide an interdisciplinary forum in which to present ideas and research as well as an opportunity to interact with other professionals who study or work with infants.

The Program Committee would like to thank all who submitted abstracts. We received about 400 submissions. The distribution by research area was as follows: Biological Processes: 7%; Perception & Attention: 15%; Communication, Play & Language: 8%; Cognition & Intelligence: 8%; Clinical-Pediatric Complications: 11%; Clinical-Psychopathology: 4%; Parent-Child Interaction: 19%; Social & Emotional Development: 12%; Early Environments: 4%; Foreign Submissions: 12%.

Support for publication of this program was provided by the Johnson and Johnson Baby Products Company.
Local Arrangements Committee

Chair: Alix Gotten

Program Committee:

Chair: Tim Boden

Members:

1. Catherine M. Lendrum
2. Susan Frey
3. Timothy J. Most
4. Mary E. Fisher
5. Robert F. Levine
6. John J. Kiley
7. Lauren S. Bergman
8. David W. G. Wyllie
9. Jonathan A. C. Baer
10. Emily B. McCall

Coordinators:

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2. Karen H. O'Connor
3. Cindy Emerick
4. Erin H. Dwyer
5. Lisa Bonham

Advisors:

1. Peri Shuster
2. Jack M. Mack
3. Jimmie D. Smith
4. John J. Kiley
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10. John J. Kiley
GENERAL INFORMATION

REGISTRATION
will take place in the hotel lobby on Thursday from 8:00 A.M. to 6:00 P.M., Friday from 8:00 A.M. to 6:00 P.M., and Saturday from 8:00 A.M. to 12:00 noon.

MEETING ROOMS
are located on the main floor of the Beverly Hilton Hotel. We have made an attempt to keep particular research areas in the same room throughout the conference. For the most part, the Monaco Room and Royal Suite will have programs on physiological and perceptual development, the Versailles Ballroom 1 will have programs on social/emotional development and mother-child interaction, and the Versailles Ballroom 2 will have programs on high-risk infants.

All poster sessions will be held in the International Ballroom. Morning poster sessions will be held from 8:00 - 10:00 A.M. and afternoon poster sessions will be held from 1:30 - 3:30 P.M. Posters will be arranged according to the numerical order listed in the program. Participants are expected to be with their posters throughout the scheduled time periods.

CONFERENCE ABSTRACTS/BOOK EXHIBITS
will be available in the Empire Room on Thursday through Saturday.

CONTINENTAL BREAKFAST
will be served between 7:00 A.M. and 9:00 A.M. in the foyer of the International Ballroom.

GALA DINNER
will be held on Friday, April 11 from 7:00 P.M. to 10:00 P.M. at the George C. Page Museum. This museum exhibits mammal and bird fossils from the Ice Age found in the surrounding La Brea Tar Pits and demonstrates methods of acquisition and reconstruction of fossils. The museum has a central tropical garden. Buses will be available between the hotel and museum throughout the evening. Tickets cost $25.00 per person and can be purchased at the Registration desk until Friday noon.

SOCIAL HOURS
will be held on Thursday and Saturday evenings from 5:15 - 7:00 P.M. Cocktails will be available.

CONFERENCE OFFICE
will be located in Parlor A in the lower level of the hotel.

BUSINESS MEETING
will be held on Sunday, April 13, from 12:00 - 1:00 P.M. in the Grand Ballroom.
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<tr>
<th>Time</th>
<th>MONACO ROOM</th>
<th>VERSAILLES BALLROOM I</th>
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<th>ROYAL SUITE</th>
<th>INTERNATIONAL BALLROOM</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Project Report: Event related potentials and infant visual processing</td>
<td>Project Report: The transition from attachment to autonomy concerns in early development</td>
<td>Symposium: Infants at risk for schizophrenia</td>
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<td>Poster Session: 9:00-10:00</td>
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<td>10:00</td>
<td>Symposium: Variability and infant behavior</td>
<td>Symposium: The process of mother-infant separation: Focusing on the mother</td>
<td>Symposium: Stress and infancy</td>
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<td>Poster Session: 10:00-11:00</td>
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<td>12:00</td>
<td>Conversation Hour: The development of interpersonal understanding</td>
<td>Conversation Hour: Temperament and caregiving</td>
<td>Conversation Hour: Newborn infant stress</td>
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<td>Poster Session: 11:00-12:00</td>
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<td>2:00</td>
<td>Symposium: Chronoeconomic timing: A systems approach</td>
<td>Research Workshop: Parental perception of emotion</td>
<td>Invited Speaker: Judy Dunn: Jokes and disputes: Slings and mothers in the development of social understanding</td>
<td>Invited Speaker: The NBAS as an intervention device</td>
<td>Poster Session: 1:30-3:00</td>
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<td>Invited Speaker: Joseph Campos: Contemporary issues in the study of infant emotions</td>
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<td>10:00</td>
<td>Dinner — George C. Page Museum</td>
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### SUNDAY

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<tr>
<th>Time</th>
<th>Monaco Room</th>
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<tr>
<td>8:30</td>
<td>Symposium:</td>
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<td></td>
<td>Mechanisms underlying infant cross-modal functioning</td>
<td>Practice strategies in analyzing multivariate longitudinal data</td>
<td>Defining and alleviating the stresses of newborn intensive care</td>
<td>9:00-11:00</td>
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<tr>
<td>10:00</td>
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<td>Habituation, familiarity and novelty preference</td>
<td>Federal support of research on infant behavior and development</td>
<td>Tracking and follow-up of infants identified as high-risk</td>
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<tr>
<td>12:00</td>
<td>Business Meeting</td>
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Thursday, April 10

Invited Address
Monaco Room
12:00 - 12:50 P.M.

The links between vision and touch in the first year of life. Peter Bryant.
Introduced by: Wendell Jeffrey

Symposium
Monaco Room
1:00 - 2:50 P.M.

Infant timing. Curtis A. Samuels (Chair).
The timing of spontaneous movements: Fetal-newborn continuities and newborn state differences. Steven Robertson.
Infant's time-locked and anticipatory responding to temporally predictable events. W. Keith Berg.
Infant timing: Anticipation of proximal events and the filled duration effect. Curtis A. Samuels.

Discussion Leader: Daniel Stern

Symposium
Versailles Ballroom 1
12:00 - 1:50 P.M.

What goes on inside parents' heads? J. Lawrence Aber & Arietta Slade (Chairs).
Attachment: The parental perspective. Inge Bretherton & Doreen Riedigway.
The internal experience of parenting: Toward an analysis of individual and developmental differences. Arietta Slade & J. Lawrence Aber.

Oral Presentations
Versailles Ballroom 2
12:00 - 1:50 P.M.

Constraints on word learning: The role of the concept of object. Nancy N. Soja & Susan Carey.

Discussion Leader: Elizabeth Bates

Oral Presentations
Royal Suite
12:00 - 4:00 P.M.

GENDER DEVELOPMENT
The construction of gender during the child's first two years. Beverly I. Fagot.
12:00 - 12:30 P.M.

Discussion Leader: Sarah Sternglanz
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**Thursday, April 10**


A15. Young infants' representation of the properties of hidden objects. Renee Baillardgeon.


A17. Auditory perception of numerosity by infants. Prentice Starkey.


**DISCRIMINATION OF MOVEMENT AND MOTOR RESPONSES**

A19. Learning to do two things at once: Development of bimanual skills in young infants. Peter Willats.


A21. Log strength and newborn stepping. Donna F. Thompson, Amy Beth Davis & Elizabeth A. Leesling.


A25. The more things change, the more they stay the same: Infant perception of threedimensional form from information given by observer movement. Philip J. Kilman & Kenneth R. Short.


A32. Discrepancy processing of actions in infancy. James D. Demetre & Peter M. Vietze.

**SOCIAL REFERENCING**

A33. The effects of maternal positive, negative and neutral affective displays on infant reactions to novel toys. Robin Hornik & Nancy Risenhoover.

A34. Social referencing, attachment, and exploration. Tedra Weiden & Tamara Ogan.

A35. Social referencing in infancy: A glance at fathers and marriage. Susan Dickstein & Rose Parks.

A36. The effect of social referencing on 12-month-olds' responses to a stranger's attempts to 'make friends.' Saul Feinman & Debra Roberts.


Thursday, April 10

Symposium

**Usefulness of animal models for understanding visual development.** Daphne Maurer (Chair).

- The use of descriptive experiments with animals as a means of studying mechanisms underlying human infant development. Ronald G. Boothe.
- Kittens' early visual development: Comparison to human infants. Ruxandra Streteanu.
- Optokinetic nystagmus in normal infants and binocularly deprived children: Comparison to animal studies. T. Lewis, D. Maurer, J. Haslip, R. Smith & H. Brent.

**Cultural and developmental aspects of interaction patterns in adolescents and their infants.** Cynthia Garcia Coll (Chair).

- Early interactions between adolescents and their infants as predictors of 2 year development. Julie A. Hofheimer & Kevin E. O'Grady.

**Individual differences in facial expression.** Nathan A. Fox (Chair).

- EEG asymmetry and the expression of emotion. Nathan A. Fox.
- Gender can be determined from the baby's face. Jacob L. Gewirtz & Joaquin P. Hernandez.
- Individual differences in facial expressivity among singleton, monozygotic, and dizygotic twin newborns. Tiffany Field.

**Invited Address**

- **The role of infant-caregiver attachment in development.** L. Alan Sroufe.
  - Introduced by: Arthur H. Parmelee

**SOCIAL HOURS**

- Grand Ballroom
- 5:15 - 7:00 P.M.
Sunday, April 13

F40. Interaction between mothers and very low birthweight children: The development of reciprocity in various interaction situations during the first 24 months. Marion Tanke, Frans Leenders, Agnes J.M. de Bruijn, Marja Lechner-van de Noort, Bernard P. Cats, Wim Wolters, & Jo Hermanss.


ATTACHMENT/RESPONSE TO SEPARATION


F43. Night waking & separation anxiety. Liz Clayman & Nicholas Blurton Jones.


F45. Attachment at adoption. J. Kennew, O. Maratos, D. Kontos, M. Klaus & A. Bogomolny.

F46. Effect of maternal behaviors on toddler separation behaviour. Susan Lollis.

F47. The influence of attachment security and maternal scaffolding on toddler mastery motivation. Christine A. Maslin, Inge Bretherton & George Morgan.

F48. The impact of maternal narcissism on the attachment behavior of two and three year old children. Nancy S. Molitor, Brian Vaughn & Peter Barglow.

F49. Attachment and play: A follow-up study. Lori A. Roggman.

F50. Maternal factors related to "AC" insecure attachment in the strange situation. Susan J. Spieker.


BUSINESS MEETING

Grand Ballroom

12 - 1:00 P.M.

Friday, April 11


F12. Imitative interactions and communicative development. Luigi Camerini.

FACIAL DISCRIMINATION/EMOTIONAL EXPRESSION


F20. Attachment and "Joy in being the cause." Beth Hoover Langhorst.


F22. Infant affective behavior, temperament and autonomic patterning. Cynthia A. Stifter.


PARENT INFLUENCES


F30. Pre and Post-birth antecedents of three-year-old attention, capacity for relationships and verbal expressiveness. Christoph M. Heinricke.
Symposium  Versailles Ballroom 2  10:00-11:50 A.M.

Tracking and follow-up on infants identified as “high-risk”: What the epidemiological data have told us, what issues remain. Eleanor Stokes Szanton (Chair).

At risk index to predict subsequent developmental problems in preterm and full term infants. Linda S. Siegel.

A model for systematic follow-up of infants after discharge from regional NICU's in urban, suburban and rural jurisdictions of Maryland. Misbah Khan.

A data-based approach to designing a high-risk infant follow-up program. James A. Blackman.

Poster Session  International Ballroom  9:00 - 11:00 A.M.

SIBLING RELATIONSHIPS

F1. The structure of older siblings' tutorial role with infants. Laura Benigni & Jaan Velser.


F5. The birth of a sibling and how it affects the quality of attachment between a mother and her firstborn. Margot Touris & Carol Harding.

INFANT CRYING


CORRELATES AND DESCRIPTORS OF MOTHER-CHILD INTERACTION


F13. Social density factors and child care in Italy. Rebecca New.


Symposium  Royal Suite  2:00 - 4:00 P.M.
Mastery motivation and optimally challenging tasks: Issues in conceptualization and measurement. Robert H. MacTurk (Chair).
- Development of mastery motivation at various levels of task difficulty. Robert MacTurk, James Dement, Mary E. McCarthy & Peter Vietze.
- The motivation of intelligence. Elizabeth J. Hirnir.

Invited Address  Grand Ballroom  4:15 - 5:15 P.M.
An infant's view of the planet Earth. Emmy E. Werner.
Introduced by: Marian Sigman

SOCIAL HOURS  5:15 - 7:00 P.M.

Friday, April 11

INDIVIDUAL DIFFERENCES/PREDICTION
C25. Patterns of development predicted from measures of the infant's environment. Donna Bryant & Margaret Burchinal.
C27. Growth of the head in male & female infants from 8 to 22 weeks. Jane Gwiazda, Joseph A. Bauer, Jr., Richard Held, Rachel Clifton & Marsha Clarkson.

VISUAL DISCRIMINATION, AGENCY, PERCEPTION
C32. Linear systems analysis of infant visual fixation behavior. Howard M. Aposhian, Peter Kaplan & John S. Werner.
C33. The influence of a comparison stimulus on visual processing in infancy. Beverly J. Roder & Emily W. Bushnell.
C34. Paraxial photorefractometry and photokeratometry: Procedures for assessing refractive status in infants. Israel Abramov, Cheryl Camenzuli, Elizabeth Lernise, Louise Hainline, Johannes de Bie & Hebert Peck.
C36. How can the developing visual system maintain veridical depth perception. Martin S. Banks.
C42. Four-month-old infants' sensitivity to kinetic and binocular information for three-dimensional shapes. Albert Yonas, Martha E. Arterberry & Carl E. Gramrud.
C43. Rapid assessment of visual acuity in infants and toddlers with visual disorders. S. Lawson Sebris, Karen Preston & Mary Alice McDonald.
C44. Infants' sensitivity to optical flow for specifying self-motion. Bennett I. Bertenthal, Sarah S. Dunn & Dina Ba.
Saturday, April 12

Symposium: Issues in research and clinical application of Revised NBS tests, Harbor Children's Hospital, 2:00 - 4:00 P.M.

- Development of a French-English-Hebrew version of revised NBS tests, Pauline R. Farber, University of Montreal.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: Understanding the development of oral and written language, 2:00 - 4:00 P.M.

- The role of early intervention in the development of language, L. Daniel, University of California, San Francisco.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: New directions in education research, Harvard Medical School, 3:00 - 5:30 P.M.

- The role of early intervention in the development of language, L. Daniel, University of California, San Francisco.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: Towards a new understanding of the role of language in the development of oral and written language, 2:00 - 4:00 P.M.

- The role of early intervention in the development of language, L. Daniel, University of California, San Francisco.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: Research Workshop: Revised NBS tests, 2:00 - 4:00 P.M.

- The development of a French-English-Hebrew version of revised NBS tests, Pauline R. Farber, University of Montreal.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: Revised NBS tests: A new approach, McLean Hospital, 2:00 - 4:00 P.M.

- The development of a French-English-Hebrew version of revised NBS tests, Pauline R. Farber, University of Montreal.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: Revised NBS tests: A new approach, McLean Hospital, 2:00 - 4:00 P.M.

- The development of a French-English-Hebrew version of revised NBS tests, Pauline R. Farber, University of Montreal.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

Symposium: Revised NBS tests: A new approach, McLean Hospital, 2:00 - 4:00 P.M.

- The development of a French-English-Hebrew version of revised NBS tests, Pauline R. Farber, University of Montreal.
- The impact of NBS on the early detection of disabilities, Anne Healy, Boston Children's Hospital.
- The role of family involvement in the process of early intervention, Frances B. Schwartz, New York University.
- The effect of revised NBS tests on the identification of neurological disorders, John M. Wexler, University of California, San Francisco.

E33. The analysis of infant habituation data, distributional problems and solutions. William Gardner.

E34. Infants are not distractible during physiologically defined periods of sustained attention. John E. Richards.

TEENAGE AND OLDER MOTHERS


E42. Caregiving in adolescent mothers: Sources of individual differences. Mary J. Ward, Susan W. Plunket & Daniel B. Kessler.

MATERNAL USE OF ALCOHOL AND DRUGS AND INFANT DEVELOPMENT


E44. Maternal drug use and neonatal temperament. Mary Thomas Noe & Marilyn L. Riese.


E47. Alcohol use during pregnancy and neonatal outcome. Gale A. Richardson & Nancy L. Day.


E50. Sudden infant death in infant exposed to opioid drugs in utero. Sydney L. Hans & Sandra S. Snook.
HEART RATE, RESPIRATION, AND SLEEP STATES


Saturday, April 12

**Conversation Hours**
12:00 - 1:00 P.M.

**THE EFFECTS OF THE ENVIRONMENT DURING THE PERINATAL PERIOD.**
Gerald Turkewitz (Organizer).
Monaco Room
Participants: Peter Gorski, Louise Hainline, & Katherine Lawson.

**MODELS OF EARLY ENVIRONMENTAL ACTION: CURRENT AND FUTURE STATUS.**
Theodore Wachs (Organizer).
Versailles Ballroom 1
Participants: Jay Belsky, Robert Mccall, Craig Ramey, & Arnold Sameroff.

**SOCIALIZATION OF EMOTION.**
Lauren Adamson (Organizer).
Versailles Ballroom 2
Participants: Michael Lewis, Hanus Papousek, & Edward Tronick.

**CLINICAL RESPONSIBILITIES OF THE INFANT RESEARCHER.**
Klaus K. Minde (Organizer).
Royal Suite
Participants: Lella Beckwith, Dante Cicchetti, & Daniel Stern.

**DEVELOPING SOCIAL SKILLS IN YOUNG MENTALLY RETARDED CHILDREN.**
Claire B. Kopp (Organizer).
International Ballroom
Participants: Jan Blacher, Peter Mundy & Peter Vietze.

**LUNCH**
1:00 - 2:00

**Poster Session**
International Ballroom
1:30 - 3:00 P.M.

**CHARACTERISTICS AND DEVELOPMENT OF PRETERM INFANTS**


**E3.** Early developmental progress of preterm twins discordant for birthweight and risk. Anita Stauffer, William J. Burns, Kayreen A. Burns, Ruth B. Deddish, Jacob Melamed & Cathy Herman.

**E4.** The development of acuity, perception, and memory in preterm infants with intraventricular hemorrhage and matched preterm controls. Dorothy J. Sandstrom & Mark S. Strauss.

**E5.** Temperament ratings by mothers and fathers of preterm infants. James W. Plunkett, David R. Cross & Samuel J. Melies.

**E6.** Use of the Bayley infant behavior record with preterm infants before feeding. Samuel J. Melies, David R. Cross & James W. Plunkett.

**E7.** Cognitive outcomes of preterms with respiratory distress syndrome. Ina F. Wallace & Cecelia M. McCarron.


**Saturday, April 12**


**D6.** The genetic and physiological correlates of temperament in young children. Brian T. Healy.

**D7.** Infant temperament as a predictor of preschool behavior problems. Diane Guerin & Allen W. Gottfried.

**D8.** Subjective and objective measures of infant temperament: A convergent validity study. Loretta A. Rieker-Danner.


**D10.** Temperamental contributions to emotion and social interaction in the second year. Ross A. Thompson & James P. Connell.

**D11.** Relationships between mother perceptions and observed episodes of infant distress: Components of perceived difficult temperament. Elizabeth M. Miller & John E. Bates.

**D12.** Mothers'/fathers' ratings of temperament and mothers' mood. Grazia Attili.

**D13.** The measurement of difficult child behavior. David MacPhee.

**PARENT ATTITUDES, PERCEPTIONS, PREFERENCES**

**D14.** Influences on maternal self-perceptions. David MacPhee & Janette B. Benson.


**D16.** A longitudinal examination of parental attitudinal changes toward child rearing as a result of an early intervention programme. Jeffrey L. Derevensky, Thomas Hadjistavropoulos, & Heather Weiner.

**D17.** Influences on maternal behavior: Child-rearing beliefs, social support and infant temperament. Tom Luster.

**D18.** Sex and parity differences in the transition to parenthood. Carolyn J. Meuwert & Michael Kalinowski.


**D20.** Preferential treatment in premature twins: Some recent findings. Klaus Minde, D. Jeffers, & Peter Marion.


**D22.** Caregiver perceptions of infant behaviors. Sharon A. Stringer, Andrea L. Starrett, & Linda R. Parker.

**D23.** Transition to parenthood: An empirical study. Guadrun Gauda.

**REARING ENVIRONMENTS, DAY CARE, MATERNAL EMPLOYMENT**

**D24.** The effects of stimulation on early infant development and maternal perception. Deborah Konick & Susan Ludington.
Symposium: "Developmental and Social Aspects of the Neonatal Period"

**Saturday, April 12**

**10:30 - 10:50 A.M.**

**Discussion Leader:** Charles Passman

**Finding a Child's Developmental Needs at Birth to Integrate a Category A**

- 9:30 - 10:30 A.M.
- Dr. B. Dixon
- "Newborn at Risk: Understanding Neonatal Well-Being and Early Interventions"

**Second Presentation:**

- 10:30 - 10:50 A.M.
- Dr. E. Jennings
- "Maternal and Infant Developmental Test Performance"