



**International Conference on  
Infant Studies  
18-21 March 1982  
Austin, Texas**



Vurpillot, E.A., University of Renee Descartes, Paris, France, 24  
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#### GENERAL INFORMATION

##### AIRPORT SHUTTLE:

Shuttle service is available to all hotels from airport.

##### REGISTRATION:

Registration will be held in the Sheraton Parlors B,C, and D on Thursday 10-7, Friday 9-5, and Saturday 9-12.

##### MEETING ROOMS:

The Brazos, Trinity, Nueces, Colorado, San Antonio, and Rio Grande Rooms are located in the Sheraton on the second floor. Meeting rooms at the Bradford Hotel include the ballroom, Bradford Austin, Bradford Conference room (located on the second floor) and Bradford room 303. We have made an attempt to schedule 5 simultaneous tracks with each track held in the same meeting room.

##### TRANSPORTATION BETWEEN HOTELS:

Hotels are located 6 short blocks apart. Shuttle transportation will be provided between the Sheraton and Bradford Hotels.

##### REFRESHMENTS:

Available during noon and 5 P.M. conversation hours.

##### DINNERS:

Topical dinners will be held Friday 8-10 P.M. Tickets cost \$14. Riverboat trip (cocktails, barbecue, and dixieland jazz) will be held Saturday 6-10 PM. Tickets cost \$25 and are available at registration desk. Buses for riverboat ride will depart between 6:00 and 6:30 PM from the Bradford Hotel.

##### NO-HOST COCKTAILS:

No-host cocktails will be sold on Thursday and Friday evening 7-8 PM.

##### BUSINESS MEETING:

The business meeting will be held Sunday 1-2 PM.

##### BABYSITTING:

For baby-sitting arrangements, please consult the registration desk.

##### CONFERENCE ABSTRACTS/BOOK EXHIBITS:

These will be available in the Sheraton in Parlors B,C, and D.

The program committee would like to thank the many researchers and professionals who submitted abstracts. We received approximately 430 papers. Due to program constraints we were able to include only 282 papers. All abstracts were reviewed "blindly" by at least 3 reviewers, and their reviews determined what was included in the program.

The goal of the third International Conference on Infant Studies, like the first two, is to provide a forum to present ideas and an opportunity to interact with other professionals who study or work with infants. We hope this goal will be realized. Thank you.

PROGRAM COMMITTEE	
Tiffanny Field - Chair	Swarz, K.B., University of Washington, 13
COGNITIVE REVIEW PANEL	Szczypka, D., University of Illinois at Urbana - Champaign, 30
CAROLYN ROVEE-COLLIER - Chair	Taylor, D.G., Pennsylvania State University, 28
EDWARD H. CORNELL	Taylor, N., Concordia University, Montreal, 11
LESLIE COHEN	Taylor, P.M., University of Pittsburgh, 10
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MARCY J. GEKOSKI	Theilen, E., University of Missouri, 15, 27
KENNETH KAYE	Thoman, E.B., University of Connecticut, 21, 31
DOUGLAS S. RAMSAY	Thomson, R., University of Michigan, 29
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JANE V. HUNT	Tyson, J., Southwestern Medical School, 10
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CHARLES LEAVITT	Ver Hoeve, J.N., University of Wisconsin, Madison, 18, 23
ANITA SOSTEK	Vilette, P.M., CRB, NICHD, NIH, 26, 28, 29
MARIAN SIMAGAN	Vinter, A., University of Geneva, 24, 29
EMILY BUSCHMELL	Von Hofsten, C., Uppsala University, Sweden, 25, 28
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Smorvik, D., University of Oslo, Norway, 20  
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Snyder, C., University of Washington, 30  
Snyder, L., Denver University, 19  
Solomon, M.J., Harvard Graduate School of Education, 23  
Sommer, F., University of Oslo, Norway, 20  
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Stegman, C.E., University of Pittsburgh, 10  
Stephens, B.R., University of Texas, Austin, 15, 19  
Stern, D.N., Cornell University Medical Center, 12, 14, 18, 24, 29  
Sternglanz, S.H., 25  
Stevenson, M.B., University of Wisconsin, Madison, 18  
Stoltz-Loike, M., Institute for the study of Exceptional Children, 16  
Strauss, M.S., University of Pittsburgh, 14, 31  
Studdert-Kennedy, M., Haskins Laboratory, 14, 29  
Sullivan, J., University of Colorado, 10  
Suomi, S., University of Wisconsin, 12, 15  
Super, C., Harvard University, 21, 29, 32  
Suwalsky, J., National Institute of Child Health and Human Development, 20  
Svejda, M., University of Denver, 14

Program Committee  
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PSYCHOPHYSIOLOGY REVIEW PANEL

Joseph Campos - Chair

Marc Provost  
David Shucard  
David Thomas

SOCIAL REVIEW PANEL

Jeanne Brooks-Gunn - Chair  
Alan Fogel - Chair

Heidi Als  
Roger Bakeman  
Phyllis Berman  
Joseph Campos  
Dante Cicchetti  
Allison Clarke-Stewart  
Virginia Demos  
Shirley Feldman  
Claire Kopp  
Michael Lamb  
Ned Mueller  
Craig Ramey  
Edward Tronick  
Martha Zaslow

LOCAL ARRANGEMENTS COMMITTEE

Leslie B. Cohen - Chair

Martin Banks  
Hill Goldsmith  
Johanna Huggens  
Judith Langlois  
Phyllis Richards  
Douglas Sawin  
Lorraine Walker

ACKNOWLEDGEMENTS

We gratefully appreciate educational grants from The Harris Foundation, Johnson and Johnson, Ross Laboratories and the University of Texas Institute of Human Development and Family Studies.

- Sameroff, A., University of Illinois at Chicago Circle, 22
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- Scheinman, M., Massachusetts Institute of Technology, 19
- Schwarz, G.M., University of Delaware, 19
- Schwartz, J., Massachusetts Department of Public Health, 10, 19
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- Seiff, P.A., University of Oklahoma, 33
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- Sherrod, K., Vanderbilt University, 28
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- Shore, C., Miami University, Ohio, 14
- Shucard, D.W., National Jewish Hospital and Research Center, 18, 23
- Sigman, M., University of California, Los Angeles, School of Medicine, 19, 20, 26
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Time	Brazos	Trinity	Bradford Ballroom	Bradford Austin	Nueces/Colorado
1 - 2:50	<u>Workshop</u> Support systems for parents with infants	<u>Workshop</u> Methods and issues of Attachment	<u>Workshop</u> Temperament	<u>Workshop</u> Environments for handicapped infants	<u>CRI Session</u>
3 - 4:50	<u>Research Reports</u>  Issues in Assessment of normal and high-risk infants	<u>Research Reports</u>  Prenatal and perinatal influences	<u>Research Reports</u>  Infant crying	<u>Research Reports</u>  Assessing qualities of mothers	<u>San Antonio/Rio Grande</u>  Video-Attachment (A. Sroufe) Video-Parenting (K. Beller)
5-6:00	<u>Conversation hour</u>  Neonatal environments.	<u>Conversation hour</u>  Mother-Infant Interactions	<u>Conversation hour</u>  Language Development	<u>Conversation hour</u>  Animal Models	<u>Conversation hour</u>  Temperament
7-8:00					<u>Dinner on the Town</u>

Reutter, S., Children's Hospital Medical Center, Washington, D.C., 20

Rhodes, L., University of California, Berkeley, 32

Richman, A.L., Harvard Graduate School of Education, 11, 14

Ricks, M.H., University of Massachusetts, Amherst, 25

Riese, M.L., University of Louisville, 9, 33

Rieser, J., Vanderbilt University, 11, 31

Roach, M.A., University of Wisconsin, Madison, 18, 33

Robertson, S.S., Case Western Reserve University, 18

Robinson, N.M., University of Washington, 18

Rocissano, L., University of Michigan, 26

Roopnarine, J.L., Utah State University, 32

Rose, S.A., Albert Einstein College of Medicine, 21, 23, 33

Rosen, T.S., Columbia University, 10

Rosenblith, J., Wheaton College, 16

Rosenfeld, C., Southwestern Medical School, 10

Rosenthal, M.K., Hebrew University, Jerusalem, 33

Ross, G., Cornell University Medical Center, 20

Ruth, C., University of Chicago, 34

Rothbart, M.K., University of Oregon, 12, 18, 27

Rovee-Collier C., Rutgers University, 15, 16, 22

Rubinstein, J., Tufts University Medical School, 34

Ruff, H.A., Albert Einstein College of Medicine, 17, 24, 27

Rupert, A.L., Southwestern Medical School, 23

Russell, C.L., University of Winnipeg, Canada, 17

Sackett, G., University of Washington, 12, 26

Sakovits, L., University of Rochester, 31

Salapatek, P., University of Minnesota, 16, 17, 22

Friday, March 19, 1982

Time	Brazos (Cognitive)	San Antonio/Rio Grande (Perception)	Nueces/Colorado (Psychophysiology/ Social)	Trinity (Social)	Bradford Ballroom (High-risk)
8-9:50	Research Reports  Infant memory	Research Reports  Non-human primate models of basic processes	Research Reports  Familiarity effects on early interactions	Research Reports  Vocal and facial ex- pressions	Research Reports  Basic Pro- cesses and early assess- ment.
10-11:50	Research Reports  Language and play behavior	Research Reports  Auditory perception	Research Reports  Developmental psy- chobiology	Symposium  Psychobiology of affective development	Research Reports  Illness and prematurity
12-1:00	Conversation hour  Learning	Conversation hour  Sensory psychophysics	Bradford Austin Conversation hour  Physiological measurement	Conversation hour  Attachment	Conversation hour  Neonatal assess- ment
1-2:50	Research Reports  Assessment of ex- ploration, play and test-taking behavior	Research Reports  The study of eye movements	Research Reports  State and environ- mental transactions	Symposium  Affect dynamics in early in- fancy	Research Reports  Preterm and full-term mother- infant inter- action

- Papousek, M., Max Planck Institute for Psychiatry, Munich, 28 34
- Park, R.D., University of Illinois at Urbana-Campaign, 26 30
- Parmele, A.H., University of California, Los Angeles, School of Medicine, 18 24
- Pechoux, M.G., University of Rene Descartes, Paris, France, 2A
- Pedersen, F.A., National Institute of Health, 20, 28
- Pedersen, J., 25
- Pedersen, D.R., 14
- Pedersen, F.R., Ohio State University, 28
- Pettersen, L., University of Minnesota, 34
- Pick, H., University of Minnesota, 33
- Piolti, P., Primate Research Center, University of Washington, 13
- Porter, S., Children's Hospital Medical Center, Boston, 9
- Prather, P., University of Pennsylvania, 29, 31
- Presson, C.C., Arizona State University, 31
- Price, C., University of Queensland, Australia, 13
- Price, G.M., 19 Mill Road, Westboro, Mass., 11
- Priftis, M., Southwestern Medical School, 10
- Proffitt, D.R., University of Virginia, 27
- Rade, N., University of California, Los Angeles, 25
- Rahm, A.S., University of Washington, 18
- Ragozin, A.S., University of Minnesota, 25
- Ramey, C., Frank Porter Graham Child Development Center, 30, 34
- Ramsay, D., Rutgers University, 28
- Ransom, M.E., University of Delaware, 27
- Rebelsky, F., Boston University, 22

Time	Brazos (Cognitive)	San Antonio/Rio Grande (Perception)	Nueces/Colorado (Psychophysiology/ Social)	Trinity (Social)	Bradford Ballroom (High-risk)
3-4:50	Research Reports  Baby talk, babbling and early language development	Research Reports  Developing visual system	New directions in the study of heart rate	Infant Social development in nontraditional families	Symposium  Variables influencing the outcome of prematurity
5-6:00	Conversation hour  Individual differences	Conversation hour  Auditory processing	Bradford Austin  Cross-cultural studies	Conversation hour  Affect	Conversation hour  High-risk Infants
6: 10 - 7	JEROME BRUNER - KEYNOTE ADDRESS - BRADFORD BALLROOM				
7-8:00	COCKTAILS - BRADFORD SECOND FLOOR LOUNGE AND BALLROOM				
8-10:00	Trinity  Dinner	Brazos  Dinner	Nueces/Colorado  Dinner	Bradford Austin  Dinner	Bradford Conf.  Room 303  Dinner
	E. Gibson  Perceptual Development	T.G.R. Bower  Perception	A. Sameroff  Early Transactions	T.B. Brazelton  Interdisciplinary Research	L. P. Lipsitt  Early Learning
					F. Rebelsky  Intervention and Social Policy

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Morse, P., University of Wisconsin, 15, 34

Mueller, E., Boston University, 34

Muir, D., Queen's University, Ontario, 23

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Murphy, T.F., University of Pittsburgh, 32

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Nagy, J., Loyola University, Chicago, 18

Nash, A., Suny at Stony Brook, 25

Naulty, C.M., Children's Hospital, Washington, D.C., 20

Nelson, C.A., University of Minnesota, 29

Nelson, K., City University of New York, 12, 14

Nelson, M., Illinois Institute for Developmental Disabilities, 14

New, R.S., Harvard Graduate School of Education, 11

Noble, C.A., University of Oklahoma, 33

Noonan, J., State University of New York at Binghamton, 18

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Panneton, R.K., University of North Carolina, Greensboro, 27

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Time	Brazo (Cognitive)	San Antonio/Rio Grande (Perception)	Nunes/Colorado (Psychophysiology/ Social)	Trinity (Social)	Bradford Ballroom (High-risk)
8:9:50	Research Reports	Research Reports	Family factors	Approaches to Measurement of early inter- actions	Symposium Child Development Counselling in well- child care
10-11:50	Research Reports	Workshop	Psychophysiology of sensory processes	Research Reports	Research Reports
	Visual information processing	Toward an integrative theory of visual-spatial development	Attachment	Sociability among young peers	Mastery motivation and language deve- lopment in high-risk infants & toddlers
11:2-1:00	Conversation hour	Conversation hour	Bradford Conf Room Conversation hour	Conversation hour	Conversation hour
	Sequential ana- lysis	Visual processing	Fathers	Parenting	Handicapped infants
1-2:50	Research Reports	Symposium	Temperament	Research Reports	Research Reports
	Learning and imi- tation	Infant sensitivity to kinematic informa- tion		Early vocal communication in infancy	Early mother-infant contact
3-4:50	Research Reports	Research Reports	Social referencing and emerging skills	Research Reports	Research Reports
	Communication, laterality and development	Auditory-visual Integration		Face perception, imitation and self-recognition	High-risk infant- caregiver inter- actions
5-6:00	CONFERENCE SYMPOSIUM - Issues in the Study of Emotion - R. Ende, J. Kagan, and M. Lewis - Bradford Ballroom				
6-10:00	RIVERBOAT TRIP - Cocktails, Barbecue, and Dixieland Jazz				

- Marsch, J., University of Chicago, 34
- Marschall, R.E., Washington University, 9, 28
- Mast, W., Nova University, 34
- Maslin, C.A., Indiana University, 25
- Matherly, A.P., University of Louisville, 9, 33
- McAull, R., Boys Town Center for the Study of Youth Development, 17, 21
- McBride, S.R., University of Delaware, 27
- McDanield, C., Vanderbilt University, 27
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- McNeeley, S., University of Colorado, Boulder, 19
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- Milner, P.M., Harvard Graduate School of Education, 11
- Mindel, K., University of Toronto, 26
- Mitchell, D.W., University of Kansas, 30
- Mohindra, I., Massachusetts Institute of Technology, 19
- Montgomery, L., University of Denver, 17

Time	Brazos (Cognitive)	San Antonio/Rio Grande (Perception)	Nueces/Colorado (Psychophysiology/ Social)	Trinity (Social)	Bradford Ballroom (High-risk)
8-9:50	Research Reports Object Permanence	Research Reports Pattern & Number Perception	Symposium Stability and Instability in Early Infancy	Research Reports Infant Peer Interactions	Research Reports Risk Conditions and Developmental Continuities
10-11:50	Research Reports Cultural and individual differences in early development	Symposium Recent developments in cross-modal functioning	Research Reports Neonatal behavior and later development	Research Reports Parent-infant interactions: Antecedents & Consequences	Symposium Parent-infant development services
12-1:00	Conversation hour General Systems theory	Conversation hour Auditory/Speech perception	Bradford Austin Conversation hour Perinatal and pediatric psychology	Conversation hour Peers	Conversation hour Infant intervention and social policy
1-2:00					

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Thursday, 1-2:50  
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Lampi, M. University of Colorado, 15

Langhorst, B.H., Wayne State University, 24

Langlois, J., University of Texas, Austin, 23

Lao, J., Institute for the study of Exceptional Children, 16

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Leavitt, L.A., University of Wisconsin, Madison, 18, 23

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Lewis, M., Institute for the study of Exceptional Children, 19, 29, 30

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Lowen, Laurie, Children's Hospital Medical Center, Boston, 9

Lucariello, J., City University of New York, 14

Lyytinen, H., University of Jyvaskyla, Finland, 19

Maccoby, E.E., Cornell University, 10

MacKain, K.S., Cornell University, 14, 29

Main, M., University of California, Berkeley, 16

Malatesta, C., New School for Social Research, New York City, 15

Malone, P., Dupont University, 10

Maloni, J.A., Magee Women's Hospital, 10

Margolin, J., Hebrew University, 32

Workshop: Support systems for parents with preterm infants: Insights from parents and professionals.

Chair: C.F. Zachariah L. Boukydis

Research on support systems for parents in the neonatal period. C.F. Zachariah L. Boukydis

Neonatology: The development of the preterm infant and family support. Richard E. Marshall.

Issues in operating a parents of prematures organization. Laurie Lowen. Parent education and support in the community for parents of older children born prematurely. Stephanie Porter.

Project welcome: An innovative model of early intervention and parent education. Linda Gilkerson.

Thursday, 1-2:50  
Trinity

Workshop: Methods and issues of attachment.

Chair: Lois Byrd

Mother to infant attachment. Lois Byrd.

Infant to mother attachment. Everett Waters.

Father to infant attachment. James Byrd.

Infant-peer attachment. Dale Hay

Thursday, 1-2:50  
Bradford Ballroom

Workshop: Assessment of Infant Temperament: Procedures and Behavioral Measures.

Chair: Ronald Wilson

Neonatal assessment at hospital. Marilyn L. Riese.

Laboratory assessment of temperament, 3-24 months. Ronald S. Wilson.

Studies of cooperation and competition, 3-4 years. Adam P. Matheny, Jr.

- Workshop: Designing and implementing environments for infants with special needs. Paula Malone, Ahita Olds
- Participants: Paula Malone, Ahita Olds
- Chair: Joseph Sullivan
- Research reports: Issues in assessment of normal and high-risk infants and toddlers.
- Chair: Joseph Sullivan
- Research reports: Conceptual issues related to data analysis on the NBAs. Joseph M. Byrne, D. Wayne Michel and Frances Deegan Horowitz.
- Chair: Joseph Sullivan
- Research reports: Issues in assessment of normal and high-risk infants and toddlers.
- Chair: Joseph Jacobson
- Research reports: Prenatal and perinatal influences on development.
- Chair: Joseph Jacobson
- Effects of prenatal ethanol exposure on growth and sensorimotor development in rat pups. Karen L. Olson and Elizabeth F. Gordon.
- Prenatal methadone exposure and early development. Helen L. Johnson and Tove S. Rosen.
- Roger Hatchet. Effects on the neonate. Ira Chasnoff, William J. Burns, and T's and Blues: Effects on the neonate. Ira Chasnoff, William J. Burns, and Carol Nagy Jacklin and Eleanor E. McCoby.
- Milton Kotchuck, Janet Schwartz, and Marlene Andrekas. Early prediction of outcome in term infants with perinatal asphyxia. Early prediction of outcome in term infants with perinatal asphyxia. Jan L. Culbertson, and Peggy C. Ferry.
- Kopp, C., University of California, Los Angeles, 26
- Kornet, A., Stanford University, 12
- Kotelchuk, M., Massachusetts Department of Public Health, 10
- Krafchuk, E.E., University of Massachusetts at Amherst, 16
- Huntington, G.S., University of North Carolina, 10, 17
- Hwang, P., University of Göteborg, 20
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- Jacquette, A.Y., University of Renée Descartes, Paris, 24
- Jarrett, N., University of South Hampton, England, 29
- Johnson, H.L., Columbia University, 10
- Johnson, P.L., University of Illinois, Urbana-Champaign, 30
- Kagann, J., Harvard University, 30
- Kaisser, M., University of Virginia, 27
- Kearnsley, R.B., Tufts University, 14
- Kaye, H., State University of New York, Stony Brook, 16
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- Krafchuk, E.E., University of Massachusetts at Amherst, 16

Guttman, R., Hebrew University, 32

Thursday, 3-4:50  
Bradford Ballroom

Gwiazda, J., Massachusetts Institute of Technology, 16, 19

Hainline, L., Brooklyn College of City University of New York, 17, 19

Halith, M.M., University of Denver, 15, 17, 26

Hannan, T.E., Purdue University, 28

Hansen, R.M., Harvard University Medical School, 23

Harding, C.G., Loyola University, Chicago, 28

Harmon, R.J., University of Colorado School of Medicine, 26

Hartmann, E.E., University of Washington, Seattle, 11

Hatcher, R., Northwestern University Medical School, 10

Havilland, J., Rutgers University, 14

Thursday, 3-4:50  
Bradford Austin

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Hayes, A., University of Queensland, Australia, 13

Haynes, C.F., University of Colorado, 11

Held, R., Massachusetts Institute of Technology, 19

Hernandez, A., Institute for the study of Exceptional Children, 19

Hock, E., Ohio State University, 11

Hofer, L., Cornell University Medical Center, 24

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Horn, S., Childrens Hospital, Washington D.C., 20

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Howard, J., University of Wisconsin, 26

Howes, C., University of California Los Angeles, 32

Hubatch, L.M., Northwestern University Memorial Hospital, 42

Humphrey, G.K., Queens University, Ontario, 23

Hunt, J., University of California, Berkeley, 32

Research reports: Infant crying.

Chair: Philip Sanford Zeskind

Cross-cultural perceptions of cries of infant at risk. Philip Sanford Zeskind.  
Adults' perception of infant vocalizations. Y. Bryan, N. Taylor and P. Seraganian.

Environmental factors in infant crying. Thomas S. Hyde, Grace Garcia, and E. Eugenie Hartmann.

The effects of contact comfort on infants' modulation of responses to pain. John Rieser, Judith Green, Joseph McLaughlin and Pamela Doxsey. Maternal learned helplessness and response to infant crying. W. L. Donovan.

Research reports: Assessing qualities of mothers.

Chair: Gail Price

- Strategies of dyadic problem solving with infants in a simulated laboratory situation. Jaan Valsiner.
- Assessment of mother-infant interaction: Mutual adaptation in the first half-year of life. Clare F. Haynes, Christy Cutler and Ruth S. Kempe.
- The assessment of infant-maternal empathy. Gail M. Price.
- The relationship between maternal caregiving behavior and personality. Ellen Hock.
- Social ecology of infant development in Italy and America. Patrice M. Miller, Amy L. Richman, and Rebecca S. New.

- Thursday, 5-6:00 - Brazos  
 Convocation hour and Hors D'oeuvres: Neonatal environments.  
 Participants: Kathryn Barnard, Marshall Klaus, Annefisse Kornher  
 Convocation hour and Hors D'oeuvres: Mother-Infant interactions  
 Participants: Dan Stern, Joy Osofsky, Colwyn Trevarthen  
 Thursday, 5-6:00 - Bradford Ballroom  
 Convocation hour and Hors D'oeuvres: Language development.  
 Participants: Elizabeth Bates, Patricia Greenfield, Katherine Nelson  
 Thursday, 5-6:00 - Bradford Austin  
 Convocation hour and Hors D'oeuvres: Animal models.  
 Participants: Robert Cairns, Gilber特 Gottilieb, Gene Sackett, Stephen Souni  
 Thursday, 5-6:00 - San Antonio/Rio Grande  
 Convocation hour and Hors D'oeuvres: Temperament.  
 Participants: William Carey, Mary Rothbart, Ted Madsen  
 Thursday, 7-8:00 - Brazos/Muces/Colorado  
 Cocktails.
- Graham, F.K., University of Wisconsin, 21, 29  
 Gottlieb, G., University of North Carolina, 12  
 Gottfried, A.W., California State University, Fullerton, 23, 33  
 Gordon, E.F., Wayne State University, 10  
 Goodman, G.S., University of Denver, 15, 17  
 Golinkoff, R.M., University of Delaware, 27  
 Goldsmith, H., University of Texas, 27, 32  
 Goldman, E., Department of Psychiatry, Massachusetts General Hospital, 14  
 Goldman, B.D., F.P.G. Child Development Center, University of North Carolina, 17  
 Goldberg, W.A., University of Michigan, 23  
 Goldberg, S., Brandeis University, 10, 26  
 Glicken, A.D., University of Colorado School of Medicine, 26  
 Giikerson, L., Wheelock College, 9  
 Gibson, E., Cornell University, 22, 27, 33  
 Gibson, J., University of Pittsburgh, 27  
 Gibson, E., Cornell University, 22, 27, 33  
 Goldberg, W.A., University of Michigan, 23  
 Goldsmith, H., University of Texas, 27, 32  
 Goldman, E., Department of Psychiatry, Massachusetts General Hospital, 14  
 Goldman, B.D., F.P.G. Child Development Center, University of North Carolina, 17  
 Goldstein, R.M., University of Delaware, 27  
 Goodman, G.S., University of Denver, 15, 17  
 Gordon, E.F., Wayne State University, 10  
 Graham, F.K., University of Wisconsin, 21, 29  
 Greenbaum, J., Vanderbilt University, 11  
 Greenbaum, C.W., Hebrew University, 32  
 Greenbaum, R., Yale University, 33  
 Greenberg, M.T., University of Washington, 18  
 Greenberg, R., Miami Medical School, 19  
 Greenfield, P., University of California, Los Angeles, 12  
 Grabbins, R.E., Washington University, 28  
 Grossman, K.E., University of Regensburg, West Germany, 25  
 Gunderson, V.M., University of Washington, Seattle, 13  
 Gunn, P., University of Queensland, Australia, 13  
 Gunnar, M.R., University of Minnesota, 29

Fenson, L., San Diego State University, 14

Ferland, M.B., McGill University, 15, 29

Ferry, P.C., University of Arizona, Health Science Center, 10

Fetters, L., Brandeis University, 10, 26

Field, T., University of Miami Medical School, 15, 18

Fisher, D., University of Missouri, 15, 27

Fitzgerald, H., Michigan State University, 34

Fogel, A.D., Purdue University, 18, 24, 26

Fox, N., Roosevelt Hospital, New York, 15, 19

Fox, R., Vanderbilt University, 27

FrankeI, D., University of Minnesota, 32

Franklin, E., Rutgers University, New Jersey, 13

Friedman, S., National Institute of Education, Washington D.C., 32

Frodi, A.M., University of Rochester, 18, 20

Frodi, M., University of Rochester, 20

Fulton, A.B., Harvard University Medical School, 23

Gaddis, E.L., University of Kansas, 28

Gaiter, J.L., Childrens Hospital, Washington D.C., 20

Gamble, W.C., Pennsylvania State University, 23

Gant, N., Southwestern University Medical School, 10

Garcia, G., University of Washington, Seattle, 11

Gardner, H., University of Georgia, 24

Gardner, J.M., Albert Einstein College of Medicine, 23

Garduque, L., Pennsylvania State University, 33

Garland, J.B., University of Virginia, 29

Gelman, R., University of Pennsylvania, 29

Gerrity, S., Vanderbilt University, 28

Gertzman, L., City University of New York, 13

Gewirtz, J., Florida International University, 28

Friday, 8-9:50  
Brazos

Research reports: Infant memory

Chair: Rose Caron

A cross-sectional study of infant long-term memory. Tracy Sherman, and Gary M. Olson.

Serial position effects in infants' recognition memory. Edward H. Cornell and Linda I. Bergstrom.

The effects of distributed training on learning and retention in infants. Barbara A. Morrongiello and Ellie Franklin.

Warm-up decrement and forgetting in three-month-olds. Jeffrey W. Fagen.  
Infant sociability and the social options in cognitive test settings. Barbara L. Zimmerman and Gary M. Olson.

Friday, 8-9:50  
San Antonio/Rio Grande

Symposium: Nonhuman primate models of basic processes in infancy.

Chair: Karyl B. Swartz

Development of vision in human and monkey infants. Ronald G. Boothe.

The Development of pattern recognition in pigtail macaque infants. Virginia M. Gunderson.

Comparative studies of social categorization in primate infants. Karyl B. Swartz  
Assymetry of vocal perception in infant baboons. Peter Pohl.

Discussant: Morton J. Mendelson

Friday, 8-9:50  
Nueces/COLORADO

Research reports: Familiarity effects on early interactions.

Chair: Brian Vaughn

Infant-stranger mutual influence. Beatrice Beebe, and Louis Gerstman.

Infant temperament and social behavior. Saul Feinman.

Constructions of infant social behaviour by mothers and researchers. Alan Hayes, Pat Gunn and Coralie Price.

Development of capacity to cope with brief parental separation at 18 months. Diane E. Wille, and Joseph L. Jacobson.

The infants' role in maintenance of attachment security: Evidence from a study of African infants. Roseanne Kermoian and P. Herbert Leiderman.

Chair: Jeanneette Haviland	Friday, 8-9:50	Research Reports: Vocal and facial expressions.
Infants, Michael Studdert-Kennedy, Susan Spiker and Dan Stern.	Mother's, speech to their babies and to another adult. Karen L. Olson.	Mothers, speech, to the infant reciprocally. David R. Pederson, Elaine Goldmen and Sarah Michtner.
Diamond, A., Harvard University of Oregon, 18	Mothers and vocalizations: Mother-infant reciprocality. Karen L. Olson.	Mothers' vocal expression of affect as a behavior regulator. Marilynn Svedja and Joseph J. Lempos.
Dickstein, S., University of Michigan, 29	Infants, perception of auditory-visual relations for speech. Kristine S. Mackain,	Learnings to talk: Socialization of one-year olds to discrete emotional expressions.
Difranco, D., Queen's University Ontario, 23	Michael Studdert-Kennedy, Susan Spiker and Dan Stern.	Mary D. Klinnert, James F. Sorce, and Robert N. Emde.
Dowdell, P.C., Queen's University Ontario, 23	Differences and vocalizations: Mother-infant reciprocal. Karen L. Olson.	Differences in reactions of one-year olds to discrete emotional expressions.
Dobley, R., Child Development Unit, Australia, 33	Dobley, J.M., Albert Einstein College of Medicine, 28	Emde, R.L., University of Miami Medical School, 19, 34
Duffy, F.H., Harvard University Medical School, 16, 32	Dowd, J.M., University of Minnesota, 11	Emory, E., State University of New York, 18
Doxsey, P., Vanderbilt University, 11, 31	Donoovan, W.L., University of Wisconsin, Madison, 11	Englisb, B., Childrens Hospital, Washington D.C., 20
Eckerman, C., Duke University, 34	Dudson, B.T., University of California Los Angeles, 20	Estes, D., University of Michigan, 20
Egeland, B., University of Minnesota, 25	Elfers, R., University of Miami Medical School, 19, 34	English, B., Child Development Unit, Australia, 33
Esterbrook, M.A., University of Michigan, 23	Emde, R.N., University of Colorado Medical School, 14, 30	Emory, E., State University of New York, 18
Feldman, G., Pellegrinetti, 6.	Emde, R.N., University of Colorado Medical School, 14, 30	Englisb, B., Childrens Hospital, Washington D.C., 20
Friday, 8-9:50	Friday, 8-9:50	Research reports: Basic processes and early assessment.
Braford Ballroom	Braford Ballroom	Chair: Michael Nelson
Rights-left asymmetries of neurologic functions in the newborn infant - G.	Rights-left asymmetries of neurologic functions in the newborn infant - G.	Rights-left asymmetries of neurologic functions in the newborn infant - G.
Cioni and G. Pellegrinetti.	Cioni and G. Pellegrinetti.	Cioni and G. Pellegrinetti.
Assessing visual acuity of severely-handicapped infants. Mark S. Strauss,	Assessing visual acuity of severely-handicapped infants. Mark S. Strauss,	Assessing visual acuity of severely-handicapped infants. Mark S. Strauss,
Bonnie L. Utley and Albert Biggian.	Bonnie L. Utley and Albert Biggian.	Bonnie L. Utley and Albert Biggian.
Memory formation for visual sequences: Evidence for increased speed of process-	Memory formation for visual sequences: Evidence for increased speed of process-	Memory formation for visual sequences: Evidence for increased speed of process-
ing with age. Philip R. Zelazo and Richard B. Kearsley.	ing with age. Philip R. Zelazo and Richard B. Kearsley.	ing with age. Philip R. Zelazo and Richard B. Kearsley.
Susan C. McDonough, and Leslie B. Cohen.	Susan C. McDonough, and Leslie B. Cohen.	Susan C. McDonough, and Leslie B. Cohen.
Research reports: Language and play behavior	Research reports: Language and play behavior	Chair: Katherine Nelson
Changes in the contributions of gestures and speech to symbolic play between	Changes in the contributions of gestures and speech to symbolic play between	Changes in the contributions of gestures and speech to symbolic play between
Early words of blind children. Ann Bigelow.	Early words of blind children. Ann Bigelow.	Early words of blind children. Ann Bigelow.
Stimulus variation in mother-child interactions. Joan Lucatello and Katherine	Stimulus variation in mother-child interactions. Joan Lucatello and Katherine	Stimulus variation in mother-child interactions. Joan Lucatello and Katherine
Nelson.	Nelson.	Nelson.
Conceptual development and early multilingual speech. Cecilia Shore.	Conceptual development and early multilingual speech. Cecilia Shore.	Conceptual development and early multilingual speech. Cecilia Shore.
Fagen, J.W., Saint John's University, 13, 27	Fagen, J.W., Saint John's University, 13, 27	Fagen, J.W., Saint John's University, 13, 27
Ewy, R., University of California Berkeley, 24	Ewy, R., University of California Berkeley, 24	Ewy, R., University of California Berkeley, 24
Everson, M.D., Stanford University, 32	Everson, M.D., Stanford University, 32	Everson, M.D., Stanford University, 32
Englisb, B., Child Development Unit, Australia, 33	Englisb, B., Child Development Unit, Australia, 33	Englisb, B., Child Development Unit, Australia, 33
Emde, R.N., University of Colorado Medical School, 14, 30	Emde, R.N., University of Colorado Medical School, 14, 30	Emde, R.N., University of Colorado Medical School, 14, 30
Emory, E., State University of New York, 18	Emory, E., State University of New York, 18	Emory, E., State University of New York, 18
Emde, R.L., University of Miami Medical School, 19, 34	Elfers, R., University of Miami Medical School, 19, 34	Emde, R.L., University of Miami Medical School, 19, 34
Englisb, B., Childrens Hospital, Washington D.C., 20	Englisb, B., Childrens Hospital, Washington D.C., 20	Englisb, B., Childrens Hospital, Washington D.C., 20
Estes, D., University of Michigan, 20	Estes, D., University of Michigan, 20	Estes, D., University of Michigan, 20
Friday, 10-11:50	Friday, 10-11:50	Research reports: Language and play behavior
Brazos	Brazos	Chair: Katherine Nelson
Research reports: Language and play behavior	Research reports: Language and play behavior	Research reports: Language and play behavior

Clark, D.E., Cornell University, 31

Clark, M.C., Florida International University, 17

Clifton, R., University of Massachusetts, 15

Cohen, L.B., University of Texas, Austin, 14, 26, 31

Cohen, S.E., University of California, Los Angeles, 16, 24

Coll, C.T.G., Brown University, 27

Collard, R., University of Massachusetts, Amherst, 31

Cooper, D.H., University of North Carolina, 27

Cornell, E.H., University of Alberta, 13, 31

Cowan, N., New York University, 15

Crawley, S.B., University of Chicago, 30

Crittenden, P.M., University of Virginia, 30

Crnic, K.A., University of Washington, 18

Crockenberg, S., University of California, Davis, 33

Culbertson, J.L., Vanderbilt University, 10

Curtis, L.E., University of Pittsburgh, 31

Cutler, C., Children's Resident Treatment Center, Northwestern Hospital, Maine, 11

Cymbalista, D., New York University, 19

Dannemiller, J.L., University of Texas, 19

Dave, R., Upstate Medical Center, 18

Davidson, R., University of Southern California, 15

Davis, D.H., University of Connecticut, 31

Deane, K., State University of New York, 24

de Boysson-Bardies, B., Chargee de Recherche, France, 19

De Casper, A.J., University of North Carolina, 15, 27

Deddish, R.B., Northwestern Memorial Hospital, 26

DeFries, J.C., University of Colorado, 32

Demany, L., University of Denver, 15

Demos, E.V., Boston University School of Medicine, 18

Friday, 10-11:50  
San Antonio/Rio Grande

Research reports: Auditory perception.

Chair: Sandra Trehub

Human fetuses perceive maternal speech. Melanie J. Spence & Anthony J. DeCasper.  
Infant's perception of rhythmic invariants in melodic tone sequences. L. Demany,  
G. S. Goodman and M.M. Haith.

Discrimination of pulse rate at 12 months. Mark B. Ferland and Morton J.  
Mendelson.

Temporal properties of echoic storage in infancy. Nelson Cowan, Karen Suomi,  
and Philip A. Morse.

Behavioral and Cardiac orienting to sound in infants. Barbara A. Morrongiello,  
and Rachel Clifton.

Friday, 10-11:50  
Nueces/Colorado

Research reports: Developmental psychobiology.

Chair: Carolyn Rovee-Collier

A comparative view of neonatal vocalization. Richard Scoville.

+ Newborn stepping: An explanation for a "disappearing reflex". Esther Thelen  
and Donna Fisher.

Growth spurts in infancy: New evidence for biobehavioral shifts in development.  
Michelle Lampl.

+ An evolutionary, functional perspective on newborn behavior. R. Woodson.  
+ A sociobiology of human infancy. David Smillie.

Friday, 10-11:50  
Trinity

Symposium: The psychobiology of affective development.

Chair: Nathan Fox

Heart rate variability, discrimination and imitation of facial expressions by  
neonates. Tiffany Field.

The development of affect in hemispheric specialization. Richard Davidson.  
+ Psychophysiology of parental perception of infant affect. C. Malatesta and A.  
Weisenfeld.

Pouts and Horseshoe mouth faces: Their determinants, affective meaning and  
signal value in infants. H. Oster.

Discussant: Stephen Porges

Research reports: Illness and prematurity.
Chait: Loraine Halker
Prematurity, perinatal trauma, and coping with stimulation. Elizabeth E.
Krafchuk, Elizabeth M., Shea, and Edward Z. Tronick.
Visual attention in preterm infants: Effects of illness and maturity. Joseph Lao.
Face violence in 3 month olds: Effects of prematurity and illness.
Marlin Stoltz-Lotke. The relationship of parent-infant concerns to infant risk status. Mary Margaret Brown.
Prematurity in preterm infants: Effects of illness and maturity. Lauren Brandt.
Clinical assessment of high-risk infant-mother interaction. Lauren Watson.
Conversations hour and Hors D'oeuvres: Learning.
Friday, 12-1:00 - San Antonio/Rio Grande
Participants: Andrew Metzoff, Carolyn Rovner-Collier, John Watson.
Conversations hour and Hors D'oeuvres: Sensory psychology.
Friday, 12-1:00 - Bradford Austin
Participants: Marty Banks, Jean Gwizda, Phillip Salapatek.
Conversations hour and Hors D'oeuvres: Sensory psychophysics.
Friday, 12-1:00 - Bradford Austin
Participants: Frank Duffy, Herb Kaye, Steve Proges.
Conversations hour and Hors D'oeuvres: Physiological measurements.
Friday, 12-1:00 - Trinity
Participants: Mary Ainsworth, Mary Main, Everett Waters.
Conversations hour and Hors D'oeuvres: Attachment.
Friday, 12-1 - Bradford Ballroom
Participants: Heidi Als, Frances Horowitz, Judith Rosembith.
Conversations hour and Hors D'oeuvres: Neonatal assessment.
Friday, 12-1 - Bradford Ballroom
Participants: Heidi Als, Frances Horowitz, Judith Rosembith.

Bauer, C., University of Miami Medical School, 32  
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Beckwith, L., University of California at Los Angeles, 16, 18  
Bee, H.L., University of Washington, 18  
Beebe, B., Yeshiva University, 13, 33  
Belsky, J., Pennsylvania State University, 23, 24, 26, 33  
Benedicte de Boysson-Bardies, 19  
Benson, N., University of Purdue, 27  
Berg, K., University of Florida, Gainesville, 25  
Bergstrom, L.I., University of Alberta, 13  
Bernstein, M., University of California, Los Angeles, 20  
Bertenthal, B.I., University of Virginia, 27  
Bigelow, A., Saint Francis Xavier University, 14  
Biglan, A., University of Oregon, 14  
Birch, E., Massachusetts Institute of Technology, 19  
Boothe, R.G., University of Washington, 13  
Born, W.S., University of Pennsylvania, 29  
Bornstein, M.H., New York University, 19, 31  
Boukydis, C.F., Harvard University Medical School, 9  
Bower, T.G.R., University of Edinburgh, 22  
Brachfeld-Child, S., Wellesley College, 33  
Bradshaw, D., University of Denver, 29  
Brandt, L., Institute for the study of Exceptional Children, New York, 16  
Brazelton, T.B., Harvard University Medical School, 18, 22  
Bretherton, I., Colorado State University, 19  
Bridger, W.H., Albert Einstein College of Medicine, 23  
Bronson, G., Hillview Acres Childrens Home, Chino, California, 17  
Brooks-Gunn, J., Educational Testing Service, Princeton University, 19, 26, 29  
Brooks, P., Vanderbilt University, 31  
Brown, M.M., University of Washington, 16

Friday, 1-2:50  
Brazos

Research reports: Assessments of exploration, play and test-taking behavior.

Chair: Robert McCall

Nonspecific transfer effects of experience with response-contingent and non-contingent toys. Barbara Davis Goldman.

Mother-infant reciprocity, causality, and response to contingent feedback.  
Mary J. Levitt & M. Cherie Clark.

Infants' exploration of objects. Holly A. Ruff.

Maternal influence on infant symbolic play. Cristine L. Russell.

Carolina record of individual behavior (CRIB): Characteristics of infants and toddlers with Down Syndrome. Gail S. Huntington and Rick Fennell.

Factoranalysis of Bayley's Infant Behavior Record. B.F. van der Meulen and M. Smrkovsky.

Friday, 1-2:50  
San Antonio/Rio Grande

Research reports: The study of eye movements.

Chair: Gordon Bronson

Development of Dark Vergence. Richard N. Aslin and Richard W. Jackson.

Orientational asymmetries in reflexive eye movements in infants. Joseph Turkel, Louise Hainline, and Israel Abramov.

The Development of visual fields in kittens: a model for human infants?  
Daphne Maurer and Roxandra Sireteanu and David Illingworth.

The development of coordinated eye-head movements. Daniel H. Ashmead and Philip Salapatek.

A longitudinal study of infant's visual scanning and discrimination of form.  
Marshall M. Haith, Gail S. Goodman, MaryAnn Goodwyn and Loretta Montgomery.

<p>Research reports: State and environmental transactions.</p> <p>Chairs: Arthur Parmentee</p> <p>Fetal heart rate as a predictor of infant behavioral state. John Noonan and Eugene Emory.</p> <p>Intrinsic rhythmic in the spontaneous movement of awake neonates. Steven S. Robinson.</p> <p>Social factors in organization of sleep states at term date in preterm infants. L. Beckwith and A.H. Parmelee.</p> <p>State characteristics of neonatal seizures. W. Douglass Tynan, Eugene K. Emory, and Rajesh Dave.</p> <p>A day off testing effect in infant psychophysiology. David G. Thomas and David Wm. Shuckard.</p> <p>Facet dynamics in early infancy: Affectionate to terance. Alan Fogel.</p> <p>Syposium: Affectionate to terance.</p> <p>Chairs: Alan Fogel</p> <p>Affectionate displays of high-risk infants during early interactions. Tiffany Field.</p> <p>Facial expressions in young children: An observational study of affect dynamics. E. Virginia Demos.</p> <p>The problem of mixed affective signals across communicative channels. Daniel N. Stern.</p> <p>Research reports: Preterm and full-term mother-infant interaction.</p> <p>Chairs: Jill Nagy</p> <p>Braddock Ballroom</p> <p>Friday, 1-2:50</p> <p>Social interaction in preterm and term mother-infant pairs. Arlene S. Ragozin, Keith A. Crnic, Mark T. Greenberg, Nancy M. Robison and Robert Basham.</p> <p>Lag sequential analysis of mother-infant interactions at home: Low birthweight and full term infants. Margarette B. Stevenson, James N. Ver Hoeve, Lewis A. Leavitt and Mary A. Rock.</p> <p>Barry M. Lester, Joel Hoffman and T. Berry Brazleton.</p> <p>Sociability and infant-mother attachment in preterm and full-term infants.</p> <p>Ann M. Frost, and Kelley Sheldon.</p> <p>Parent interaction with full-term and pre-term infants. Kathryn E. Barrand and Helen L. Bee.</p>	<p>Research reports: State and environmental transactions.</p> <p>Chairs: Arthur Parmentee</p> <p>Fetal heart rate as a predictor of infant behavioral state. John Noonan and Eugene Emory.</p> <p>Intrinsic rhythmic in the spontaneous movement of awake neonates. Steven S. Robinson.</p> <p>Social factors in organization of sleep states at term date in preterm infants. L. Beckwith and A.H. Parmelee.</p> <p>State characteristics of neonatal seizures. W. Douglass Tynan, Eugene K. Emory, and Rajesh Dave.</p> <p>A day off testing effect in infant psychophysiology. David G. Thomas and David Wm. Shuckard.</p> <p>Facet dynamics in early infancy: Affectionate to terance. Alan Fogel.</p> <p>Syposium: Affectionate to terance.</p> <p>Chairs: Alan Fogel</p> <p>Affectionate displays of high-risk infants during early interactions. Tiffany Field.</p> <p>Facial expressions in young children: An observational study of affect dynamics. E. Virginia Demos.</p> <p>The problem of mixed affective signals across communicative channels. Daniel N. Stern.</p> <p>Research reports: Preterm and full-term mother-infant interaction.</p> <p>Chairs: Jill Nagy</p> <p>Braddock Ballroom</p> <p>Friday, 1-2:50</p> <p>Social interaction in preterm and term mother-infant pairs. Arlene S. Ragozin, Keith A. Crnic, Mark T. Greenberg, Nancy M. Robison and Robert Basham.</p> <p>Lag sequential analysis of mother-infant interactions at home: Low birthweight and full term infants. Margarette B. Stevenson, James N. Ver Hoeve, Lewis A. Leavitt and Mary A. Rock.</p> <p>Barry M. Lester, Joel Hoffman and T. Berry Brazleton.</p> <p>Sociability and infant-mother attachment in preterm and full-term infants.</p> <p>Ann M. Frost, and Kelley Sheldon.</p> <p>Parent interaction with full-term and pre-term infants. Kathryn E. Barrand and Helen L. Bee.</p>
<p>Adams, R.J., McMaster University, 19</p> <p>Adams, L., Georgia State University, 24</p> <p>Ainsworth, M., University of Virginia, 16</p> <p>Allen, T.W., University of Texas, El Paso, 33</p> <p>Altis, H., Harvard Medical School, 16, 32</p> <p>Altemier, W., Vanderbilt University, 28</p> <p>Amborn, S.R., Stanford University, 32</p> <p>Anthony, B.J., University of Wisconsin, Madison, 29</p> <p>Antonelli, A., University of Bristol, England, 32</p> <p>Arbel, T., Hebrew University, 32</p> <p>Ashmead, D.H., University of Minnesota, 17</p> <p>Aslin, R.N., Indiana University, 17, 19, 21</p> <p>Averey, G.B., Childrens Hospital National Medical Center, 20</p> <p>Auerbach, J., Southwestern Special Education, 32</p> <p>Battley, W.T., Tulane University, 23</p> <p>Baillargeon, R., University of Pennsylvania, 31</p> <p>Bakeman, R., Georgia State University, 24, 26</p> <p>Baker, R.A., California State University, 33</p> <p>Banks, M., University of Texas at Austin, 16, 19</p> <p>Barnard, K.E., University of Washington, 12, 18</p> <p>Barnett, R.K., Cornell University Medical Center, 24</p> <p>Basham, R., University of Washington, 18</p> <p>Bates, J.E., University of Colorado, 25, 27</p> <p>Bates, E., University of Colorado, 12, 19, 28</p>	<p>Research reports: State and environmental transactions.</p> <p>Chairs: Arthur Parmentee</p> <p>Fetal heart rate as a predictor of infant behavioral state. John Noonan and Eugene Emory.</p> <p>Intrinsic rhythmic in the spontaneous movement of awake neonates. Steven S. Robinson.</p> <p>Social factors in organization of sleep states at term date in preterm infants. L. Beckwith and A.H. Parmelee.</p> <p>State characteristics of neonatal seizures. W. Douglass Tynan, Eugene K. Emory, and Rajesh Dave.</p> <p>A day off testing effect in infant psychophysiology. David G. Thomas and David Wm. Shuckard.</p> <p>Facet dynamics in early infancy: Affectionate to terance. Alan Fogel.</p> <p>Syposium: Affectionate to terance.</p> <p>Chairs: Alan Fogel</p> <p>Affectionate displays of high-risk infants during early interactions. Tiffany Field.</p> <p>Facial expressions in young children: An observational study of affect dynamics. E. Virginia Demos.</p> <p>The problem of mixed affective signals across communicative channels. Daniel N. Stern.</p> <p>Research reports: Preterm and full-term mother-infant interaction.</p> <p>Chairs: Jill Nagy</p> <p>Braddock Ballroom</p> <p>Friday, 1-2:50</p> <p>Social interaction in preterm and term mother-infant pairs. Arlene S. Ragozin, Keith A. Crnic, Mark T. Greenberg, Nancy M. Robison and Robert Basham.</p> <p>Lag sequential analysis of mother-infant interactions at home: Low birthweight and full term infants. Margarette B. Stevenson, James N. Ver Hoeve, Lewis A. Leavitt and Mary A. Rock.</p> <p>Barry M. Lester, Joel Hoffman and T. Berry Brazleton.</p> <p>Sociability and infant-mother attachment in preterm and full-term infants.</p> <p>Ann M. Frost, and Kelley Sheldon.</p> <p>Parent interaction with full-term and pre-term infants. Kathryn E. Barrand and Helen L. Bee.</p>
<p>Abramov, I., Brooklyn College of City University of New York, 17</p> <p>Acobo, C., University of Connecticut, 37</p> <p>Adams, R.J., McMaster University, 19</p> <p>Adams, L., Georgia State University, 24</p> <p>Ainsworth, M., University of Virginia, 16</p> <p>Allen, T.W., University of Texas, El Paso, 33</p> <p>Altis, H., Harvard Medical School, 16, 32</p> <p>Altemier, W., Vanderbilt University, 28</p> <p>Amborn, S.R., Stanford University, 32</p> <p>Anthony, B.J., University of Wisconsin, Madison, 29</p> <p>Antonelli, A., University of Bristol, England, 32</p> <p>Arbel, T., Hebrew University, 32</p> <p>Aslin, R.N., Indiana University, 17, 19, 21</p> <p>Ashmead, D.H., University of Minnesota, 17</p> <p>Averey, G.B., Childrens Hospital National Medical Center, 20</p> <p>Auerbach, J., Southwestern Special Education, 32</p> <p>Battley, W.T., Tulane University, 23</p> <p>Baillargeon, R., University of Pennsylvania, 31</p> <p>Bakeman, R., Georgia State University, 24, 26</p> <p>Baker, R.A., California State University, 33</p> <p>Banks, M., University of Texas at Austin, 16, 19</p> <p>Barnard, K.E., University of Washington, 12, 18</p> <p>Barnett, R.K., Cornell University Medical Center, 24</p> <p>Basham, R., University of Washington, 18</p> <p>Bates, J.E., University of Colorado, 25, 27</p> <p>Bates, E., University of Colorado, 12, 19, 28</p>	<p>Research reports: Preterm and full-term mother-infant interaction.</p> <p>Chairs: Jill Nagy</p> <p>Braddock Ballroom</p> <p>Friday, 1-2:50</p> <p>Social interaction in preterm and term mother-infant pairs. Arlene S. Ragozin, Keith A. Crnic, Mark T. Greenberg, Nancy M. Robison and Robert Basham.</p> <p>Lag sequential analysis of mother-infant interactions at home: Low birthweight and full term infants. Margarette B. Stevenson, James N. Ver Hoeve, Lewis A. Leavitt and Mary A. Rock.</p> <p>Barry M. Lester, Joel Hoffman and T. Berry Brazleton.</p> <p>Sociability and infant-mother attachment in preterm and full-term infants.</p> <p>Ann M. Frost, and Kelley Sheldon.</p> <p>Parent interaction with full-term and pre-term infants. Kathryn E. Barrand and Helen L. Bee.</p>

Sunday, 10-11:50  
Bradford Ballroom

Symposium: Parent-infant development services: Clinical research of parent-infant interaction.

Chair: Myra Leifer

Clinical intervention methods for disturbed parent-infant interaction.  
Chaya Roth

The use of quantitative single-case methodology for studying the effects of parent-infant interaction. Myra Leifer and Jeanne Marsh  
Assessing parent-infant interaction within an ecological model. Donna Spiker  
Clinical case presentation of a disturbed parent-infant dyad. Margie Morrison and Laurie Leventhal-Belfer.

Discussant: Alan Sroufe

Friday, 3-4:50  
Brazos

Research reports: Baby talk, babbling and early language development.

Chair: D. Kimbrough Oller

Why we talk "baby talk" to babies. D. Cymbalista and Marc H. Bornstein.  
Do babies babble like speakers speak? Bénédicte de Boysson-Bardies.  
A phonological comparison of babbling of English-and-Spanish-learning infants. D.K. Oller and R.E. Ellers.  
Individual differences at 20 months: Morphology and syntax. Inge Bretherton, Sandra McNew, Lynn Snyder and Elizabeth Bates.  
Continuity in language ability from 13 to 28 months. Elizabeth Bates, Inge Bretherton and Lynn Snyder.  
Categorization and language skills in the second year. Judy A. Ungerer and Marian Sigman.

Friday, 3-4:50  
San Antonio/Rio Grande

Sunday, 12-1:00 - Brazos

Conversation hour and Hors D'oeuvres: General Systems Theory  
Participants: Craig Ramey, Hanus Papousek, Mechthild Papousek

Sunday, 12-1:00 - San Antonio/Rio Grande

Conversation hour and Hors D'oeuvres: Speech perception.  
Participants: Rebecca Eilers, Harry McGurk, Philip Morse, Sandra Trehub

Sunday, 12-1:00 - Bradford Austin

Conversation hour and Hors D'oeuvres: Perinatal & Pediatric Psychology  
Participants: Hiram Fitzgerald, Bernie Karmel, Barry Lester

Sunday, 12-1:00, Trinity

Conversation hour & Hors D'ouevres: Peers  
Participants: Carol Eckerman, Ed Mueller and Judith Rubinstein

Sunday, 12-1:00 - Bradford Ballroom

Conversation hour & Hors D'oeuvres: Infant interview and social policy.  
Participants: Bettye Caldwell, Alice Honig, Marilyn Segal, Wendy Masi

Sunday, 1-2:00 - Brazos

Business Meeting

Friday, 3-4:50  
Nueces/Colorado

Research reports: New directions in the study of heart rate.

Chair: Steve Porges

Estimating oxygen consumption from heart rate. R. Woodson, Reena Greenberg and Tiffany Field.  
Development of autonomic control in term and preterm infants from birth to three months. Annie Hernandez and Nathan Fox.  
Facial and Cardiac Responses to Novel Stimuli. Gail M. Schwartz, Susan E. Ansul and Carroll E. Izard.  
Heart rate variability and attention in handicapped and normal infants. Jeanne Brooks-Gunn and Michael Lewis.  
Psychophysiological study of child-environment interaction in the natural setting. Heikki Lyytinen

**Syposium: Infant social development in nontraditional families.** Friday, 3-4:50  
**Chair:** Philip Hwang  
**Infant experiences in traditional and dual wage-earner families.** Frank A.  
**Pedersen, Martha Zaslow, Joann Swawalsky and Richard Cain.**  
**Increased paternal involvement and family relationships.** Ann M. Frodi, Phillip Hwang, and Maja Frodi.  
**Parent-child attachment among kibbutz-reared infants.** Abraham Sagiv, Michael E. Lamb, David Estes, Ronit Shoham, Kathleen Lewkowitz, and Rechel Dvir-Michaeli.  
**Security of infant-adult attachment among kibbutz-reared infants.** Abraham Sagiv, Michael E. Lamb, David Estes, Ronit Shoham, Kathleen Lewkowitz, and Rechel Dvir-Michaeli.  
**Study of the low birthweight infants.** A longitudinal study of preterm infants at 5 years. Linda S. Siegel  
**Perinatal, reproductive, and environmental variables as predictors of the development of preterm infants at 5 years.** Linda S. Siegel  
**Marfan syndrome.** Influence of infant behavior on outcome at 5 years of age.  
**Grade 11 intraventricular hemorrhage.** Developmental outcome at 1 year in very low birthweight preterm infants. Jürgen L. Gaither, Sharon Levy Murray, Gloria Eng, Charles S. Chang, Sharon Reutter, Cheryl M. Natlity, Sherrill Horn and Gordon B. Avery.  
**Perinatal risk factors in development of low birth-weight infants.** Lars Smith, Day Smorvilk, Stephen von Teitzchner and Finn Sommer.

**Trinity**  
**Friday, 3-4:50**

**Syposium: Infant social development in nontraditional families.**

**Chair:** Allen W. Gottfried and Susan A. Rose  
**Infant experiences in cross-modal transfer.** Robert A. Baker, Kathleen W., Brown and Allen W. Gottfried.  
**Object discrimination in oral-auditory and oral-visual sensory contexts.** Terry W., Allen, Intermediate perception of substance. E.J. Gibson and A.S. Walker.  
**The basis of infant visual-tactile functioning—amodal dimensions of multi-modal compounds.** Emily W. Bushnell.  
**Parent-child relationships in alternative life styles.** Bernice T. Edusson, Irla Lee Zimmerman and Marlene Berndtsein.

**Chair:** Herbert Pick  
**Discussions: Herbert Pick**  
**Infant experiences in traditional and dual wage-earner families.** Frank A.  
**Pedersen, Martha Zaslow, Joann Swawalsky and Richard Cain.**  
**Increased paternal involvement and family relationships.** Ann M. Frodi, Phillip Hwang, and Maja Frodi.  
**Parent-child attachment among kibbutz-reared infants.** Abraham Sagiv, Michael E. Lamb, David Estes, Ronit Shoham, Kathleen Lewkowitz, and Rechel Dvir-Michaeli.  
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**Lee Zimmerman and Marlene Berndtsein.**

**Bradford Ballroom**  
**Friday, 3-4:50**

**Syposium: Variables influencing the outcome of prematurity: A longitudinal study of the low birthweight infants.**

**Chair:** Linda S. Siegel  
**Perinatal, reproductive, and environmental variables as predictors of the development of preterm infants at 5 years.** Linda S. Siegel  
**Marfan syndrome.** Influence of infant behavior on outcome at 5 years of age.  
**Grade 11 intraventricular hemorrhage.** Developmental outcome at 1 year in very low birthweight preterm infants. Jürgen L. Gaither, Sharon Levy Murray, Gloria Eng, Charles S. Chang, Sharon Reutter, Cheryl M. Natlity, Sherrill Horn and Gordon B. Avery.  
**Perinatal risk factors in development of low birth-weight infants.** Lars Smith, Day Smorvilk, Stephen von Teitzchner and Finn Sommer.

**Chair:** Susan Widmayer  
**Research reports: Parent-infant interactions: Antecedents and consequences.**

**James W., Caron and Susan J., Templeton.** **Parents' perceptions of their own activities.** Sheila Brachfeld-Child.  
**Parents' peer versus infant-mother interactions: Infant behavior or maternal characteristics?** M.A. Rockh.  
**The interpretations of attachment and free and elicited play behavior.** Jay Belsky and Larute Garudague.

**Chair:** Susan Widmayer  
**Research reports: Parent-infant interactions: Antecedents and consequences.**

**Sunday, 10-11:50**  
**Trinity**  
**Research reports: Neonatal behavior and later development.**  
**Differentiated communicative acts in mother-infant interaction during breast feeding in the neonatal period.** Miriam K., Rosenthal.  
**Individual differences in early social interaction.** Linda, Shafrazi, and P.A. Self.  
**Correlation of breast neonatal behavioral assessment scale with Carey infant temperament questionnaire.** Rosalie Greenbaum and Beatrice Bebe.  
**Behavioral correlates of the neonate and cognitive performance of the infant.** Marilyn L., Riese and Adam P., Metheny, Jr.  
**Can performance in the Bayley scales of infant development be predicted early in the first year of life?** Susan Crookshank and Karen Mccluskey.

**Sunday, 10-11:50**  
**Trinity**  
**Research reports: Parent-infant interactions: Antecedents and consequences.**

**James W., Caron and Susan J., Templeton.** **Parents' perceptions of their own activities.** Sheila Brachfeld-Child.  
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**The interpretations of attachment and free and elicited play behavior.** Jay Belsky and Larute Garudague.

**Chair:** Susan Widmayer  
**Research reports: Parent-infant interactions: Antecedents and consequences.**

Sunday 8-9:50  
Trinity

Research reports: Infant peer interactions.

Chair Deborah Vandell

Individual differences in infant friendships. Carollee Howes.

The cognitive and social features of play among infants and toddlers. Jaipaul L. Roopnarine and Tiffany Field.

Effects of age and age-mix on toddler peer interaction. Celia A. Brownell.

Development of role taking ability in toddlers. Celia A. Brownell

The Impact of center and family day care on the toddlers' willingness to explore. Rosanne Kermoian, Mark D. Everson and Sueann R. Ambron.

Sunday, 8-9:50  
Bradford Ballroom

Research reports: Risk conditions and developmental continuities

Chair: Sarah Friedman

Continuity of behavioral organization from birth to 18 months. H. Als, F.H. Duffy.

Failure to thrive - a developmental follow-up. Lynn Twarog Singer.

Rhythmic habit patterns as a function of handicapping condition. Rick Fennell, and Rune J. Simeonsson.

Down's Syndrome infant and environment. Lars Smith.

Incidence of deficit in low birthweight infants. Susan Widmayer and Charles Bauer.

Infant mental development and learning disabilities at 6 years. Jane V. Hunt and Leanne Rhodes.

Sunday, 10-11:50  
Brazos

Research reports: Cultural and individual differences in early development.

Chair: Charles Super

Culture, sex, and neonatal behavior. Charles M. Super.

Comments on the development of sex differences. Ann Antonelli.

Infants of adoptive and biological parents: First facts on early stages of development. Charles W. Greenbaum, Judith Auerbach, Ruth Guttman, Rachel Kela, Tali Arbel, Judith Margolin and Daniel Frankel.

Genetic influences on individual differences in emotionality. Hill Goldsmith and Joseph J. Campos.

The relationship of neurological maturation and cognitive development in infants. Timothy F. Murphy, and Craig B. Liden.

Genetic and environmental clusters of Bayley items at one year of age. Robert Plomin and J.C. DeFries.

Friday, 5-6:00 - Brazos

Conversation hour & Hors D'oeuvres: Individual differences.  
Participants: Robert McCall, Robert Plomin, Evelyn Thoman

Friday, 5-6:00 - San Antonio/Rio Grande

Conversation hour & Hors D'oeuvres: Auditory Processing.  
Participants: Richard Aslin, Keith Berg, Frances Graham

Friday, 5-6:00 - Bradford Austin

Conversation hour & Hors D'oeuvres: Cross-cultural Studies.  
Participants: C. Super, H. Leiderman, D. Freedman

Friday, 5-6:00 - Trinity

Conversation hour & Hors D'oeuvres: Affect.  
Participants: Joseph Campos, Alan Sroufe, Jeanette Haviland

Friday, 5-6:00 - Bradford Ballroom

Conversation hour & Hors D'oeuvres: High-risk Infants.  
Participants: Susan Rose, Douglas Sawin, Linda Siegel, Anita Sostek.

Friday, 6:10 - 7 - Bradford Ballroom

Keynote Address: Jerome Bruner, "Are infants becoming little theorists or little strategists?" Introduced by Tiffany Field

Friday, 7-8 - Bradford Ballroom and Second Floor Lounge

Cocktails

<p>Sunday, 8-9:50 Nueces/Colorado</p> <p>Symposium: <i>Stability and instability in early infancy: New questions for an old issue.</i></p> <p>Chair: E.B. Thomas</p>	<p>Mother and infant as controller and context. E.B. Thomas. Role of infant crying in the early mother-infant dialogue. C. Acebo. D.H. Davis.</p> <p>Stability of state organization in early infancy reflects mother-infant interaction. P.T. Becker.</p>
<p>Sunday, 8-9:50 San Antonio/Rio Grande</p> <p>Research reports: Object permanence and search behavior.</p> <p>Chair: Edward Gorrell</p>	<p>The development of object and person permanence in infants with Down's syndrome. Pamela Duxsey, Penelope Brooks and John Bates. Infants' understanding of object location and identity. Adele Diamond. Search behavior of 9 month olds: A contingency account. Bebra E. Clark. Using mother as a spatial landmark. Clark C. Presson and Laurette H. Hrig Object permanence in the five month old infant. Renée Baffalagno</p>
<p>Sunday, 8-9:50 San Antonio/Rio Grande</p> <p>Research reports: Object permanence and search behavior.</p> <p>Chair: Edward Gorrell</p>	<p>Fridays, 8-10:00 - San Antonio/Rio Grande</p> <p>Topic: <i>The origins of perception and cognition.</i></p> <p>Introduced by Andrew Melzoff.</p> <p>Topic: <i>The origins of perception and cognition.</i></p> <p>Introduced by Arnold Sameroff, <i>Transactions!</i> and <i>Transactions?</i></p> <p>Fridays, 8-10:00 - Nueces/Colorado</p> <p>Topic: <i>Berry Brazelton, "Interdisciplinary research: Building bridges across stormy oceans."</i> Introduced by Barry Lester.</p> <p>Fridays, 8-10:00 - Bradford Conference Room</p> <p>Topic: <i>Lewis P. Lipsitt, "Pleasures and annoyances of infants,</i> and the law of effect.</p> <p>Fridays, 8-10:00 - Bradford Conference Room</p> <p>Topic: <i>Freida Rebelesky, "Who cares? Infant development and public policy."</i></p> <p>Fridays, 8-10:00 - Bradford Room 303</p> <p>Topic: <i>Carylyn Roosse-Collie, "Developmental integration of visual pattern by young humans,"</i> and Alice Honig</p>
<p>Sunday, 8-9:50 Brazos</p> <p>Research reports: Pattern and number perception.</p> <p>Chair: Roberta Collier</p>	<p>Fridays, 8-10:00 - San Antonio/Rio Grande</p> <p>Topic: <i>T. G.R. Bowser, "The origins of perception and cognition."</i></p> <p>Introduced by Elizabeth Spelke.</p> <p>Topic: <i>Elanor Gibson, "Basic concepts underlying perceptual development."</i> Introduced by Elizabeth Spelke.</p> <p>Fridays, 8-10:00 - Bradford Austin</p> <p>Topic: <i>Philip Salapatek, "Transactions!"</i></p> <p>Fridays, 8-10:00 - Nueces/Colorado</p> <p>Topic: <i>Arnold Sameroff, "Transactions!"</i></p> <p>Fridays, 8-10:00 - Bradford Conference Room</p> <p>Topic: <i>Freida Rebelesky, "Who cares? Infant development and public policy."</i></p> <p>Fridays, 8-10:00 - Bradford Room 303</p> <p>Topic: <i>Carylyn Roosse-Collie, "Developmental integration of visual pattern by young humans,"</i> and the law of effect.</p> <p>Fridays, 8-10:00 - Bradford Conference Room</p> <p>Topic: <i>Lewis P. Lipsitt, "Pleasures and annoyances of infants,</i> and the law of effect.</p> <p>Fridays, 8-10:00 - Bradford Conference Room</p> <p>Topic: <i>Freida Rebelesky, "Who cares? Infant development and public policy."</i></p>

Saturday, 3-4:50  
Bradford Ballroom

Research reports: High-risk infant-caregiver interactions.

Chair: Craig Ramey

Sibling interaction: Evidence of a generational effect in maltreating families.  
Patricia M. Crittenden.

Reconceptualizing the social environment of the high-risk infant: Fathers and settings. Barbara R. Tinsley, Patti L. Johnson, Denis Szczypka and Ross D. Parke.

Intervention effects on mother-child interaction. Donna Bryant, Craig Ramey, and Margaret Burchinal.

Sequelae of mothers' development expectations about their infants. Sandra K. Mitchell and Charlene Snyder.

Mother-child interactions and mental development in two-year-olds with Down Syndrome. Susan B. Crawley and Donna Spiker.

Saturday, 5-6:00 - Bradford Ballroom

Panel Discussion: Issues in the Study of Emotion. Robert Emde, Jerome Kagan and Michael Lewis, Introduced by Tiffany Field.

Saturday, 6-10:00 - Riverboat Trip - Cocktails, Barbeque, and Dixieland Jazz.

Saturday, 8-9:50  
Brazos

Research reports: Visual information processing.

Chair: Albert Yonas

Familiarity-novelty preference in infant recognition memory: Implications for information processing. Susan A. Rose, Allen W. Gottfried, Patricia Carminar, and Wagner H. Bridger.

✓ A visual recognition test of infant intelligence. Joseph F. Fagan, III. Perception of pattern structure in 4-month olds. G. Keith Humphrey, Diane Di Franco, Darwin Muir and Peter C. Dodwell.

Perception of visual angle as distance information. Carl E. Granrud, Albert Yonas and Linda Pettersen.

\* Information Processing skills in infants' search for hidden objects. Catherine Sophian, and Henry Wellman.

Saturday, 8-9:50  
San Antonio/Rio Grande

Research reports: Psychophysiology of sensory processes.

Chair: David Shucard

Neonatal sensory-elicited cardiac response: Modification by state and antecedent sensory events. J.N. Ver Hoeve, and L.A. Leavitt.

Neonates' arousal level and visual attention to temporal frequencies. Judith M. Gardner and Bernard Z. Karmel.

Changes in auditory brainstem evoked responses in the newborn period. Robert E. Lasky, and Allen L. Rupert.

Retinal adaptation in infants. Anne B. Fulton and Ronald M. Hansen.

Assessment of refractive amblyopia in infants. D. Luisa Mayer, Ronald M. Hansen, and Anne B. Fulton.

Saturday, 8-9:50  
Nueces/Colorado

Research reports: Family Factors

Chair: Judy Langlois

Father involvement, attachment, and child task competence. M. Ann Easterbrooks.

\* Marital quality and child-mother, child-father attachments. Wendy A. Goldberg. Affinity: An ethological theory of the infant-father relationship. William T. Bailey.

Raising a family: Social support and infant care. Margaret J. Solomon.

\* The determinants of parenting within a family context. Wendy C. Gamble and Jay Belsky.

- Research reports: Approaches to measurement of early interactions.**
- Chair: Jay Befsky
- Saturday, 8-9:50
- Cross validation of microanalytic approaches to quantifying maternal behavior in the context of face-to-face interaction. Beth Hoover Langhorst and Alan D. Fudge.**
- Two types of videotaped interactions: From counts to context. Lauren Adamsen and Roger Bakeman.**
- Dyadic interaction profile (DIP): A measure of social interaction behavior.**
- Violors and style. Roanne J. Barnes, Lynne Horner and Daniel N. Stern.**
- Defining and assessing individual differences in infant attachment relationships: Particular cases of mother-child interaction through well child care counseling.**
- The physician's role in providing support and education to new parents.**
- Robert Chamberlin**
- Research reports: Classification and discrimination**
- Chair: Holly Ruff
- Saturday, 10-11:50
- Brazos**
- Group well child care. Lucy M. Osborn**
- Enhancement of mother-child interaction through well child care counseling.**
- Particular cases**
- The physician's role in providing support and education to new parents.**
- Donna Bradshaw.**
- Research reports: Social referencing and emerging skills.**
- Chair: Megan R., Gunnar
- Saturday, 3-4:50
- Megan R., Gunnar**
- The effects of predicting "safety" on fear reactions during infancy.**
- R. Gunnar.**
- Origins of referential communication in human infancy.**
- George Butterworth, and Nicholas Jarrett.**
- Social referencing and self-produced locomotion. Jane Blanton Garland.**
- Social referencing and maternal contractions. Susan Dickstein and Ross Thompson.**
- Quality of attachment, social referencing and infant temperament.**
- Donna Bradshaw.**
- Research reports: Face perception, imitation and self-recognition.**
- Chair: Teder Warden
- Saturday, 3-4:50
- Teder Warden**
- Organization in early mother-infant gaze. David J. Messer and Peter M. Vitzvez.**
- Infants' daily experience and attention to faces. Charles M. Super.**
- The perception of holographic facial presentation faces by 2-and-5-month old infants.**
- Charles A. Nelson and Frances Degen Horowitz.**
- The imitation ability in the first months of life. Annice Winter.**
- Antecedents of visual self-recognition in infancy.**
- Michelle Lewis and Jeanne Brooks-Gunn.**
- Research reports: Some developmental data.**
- Chair: Elaine A. Updegraff, Marie G. Pechoux and Anne Y. Jacobson
- Elaine A. Updegraff**
- Abstract stimulus perception in six-month olds.**
- Peter Mundy, S. Wagner, E. Winnicott, H. Gardner and D. Cicchetti.**
- Encoding processes in infant recognition. Barbara A. Younger, and Leslie Infant perception of correlated attributes.**
- B. Cohen.**
- Auditory-visual coordination in neonates and infants.**
- Annice Winter, Gianluca de Nobili, Grazella Petrelli and Giovanni Giomi.**

Saturday, 10-11:50  
Bradford Ballroom

Research reports: Mastery motivation and language development in high-risk infants and toddlers.

Chair: Claire Kopp

Object sorting by pre-term and full-term infants. Susan Goldberg, David Starkey and Linda Fetter.

Assessment of mastery motivation in term and preterm infants. Robert J. Harmon and Anita D. Glicken.

Mastery motivation in handicapped toddlers: The effect of control over speech output on language acquisition. Laura F. Meyers and Judy Howard.

Language development of high-risk infants. Leona M. Hubatch, William J. Burns, and Ruth B. Deddish.

Language and interaction in high risk toddlers. L. Rocissano and Y. Yatchmink.

Saturday, 1-2:50  
Brazos

Research reports: Learning and imitation.

Chair: Jeffrey W. Fagen

Infants' attempts to recreate events: Causality by imitation and by appeal. Suzanne R. McBride, Roberta Michnick Golinkoff and Margaret E. Ransom. The big band sound: Teaching Infants to make an elephant play drums. Mary Kaiser, Nancy Benson, and Christina Christopoulou.

A kinematic analysis of movement changes during very early learning. Esther Thelen and Donna Fisher.

A behavioral study of infants and toddlers learning a novel task. David H. Cooper and Robert Plomin.

Newborns are sensitive to temporal and behavioral contingencies. Robin K. Panneton, and Anthony J. DeCasper.

Saturday, 1-2:50  
San Antonio/Rio Grande

Saturday, 12-1:00 - Brazos

Conversation hour & Hors D'oeuvres: Sequential analyses.  
Participants: Roger Bakeman, Alan Fogel, Gene Sackett

Saturday, 12-1:00 - San Antonio/Rio Grande

Conversation hour & Hors D'oeuvres: Visual Processing.  
Participants: Al Caron, Leslie Cohen, Joe Fagan, Marshall Haith

Saturday, 12-1:00 - Bradford Conference Room

Conversation hour & Hors D'oeuvres: Fathers  
Participants: Jay Belsky, Ross Parke, Michael Yogman

Saturday, 12-1:00 - Trinity

Conversation Hour & Hors D'oeuvres: Parenting  
Participants: Susan Goldberg, John Kennell, Klaus Minde

Saturday, 1-2:50  
Nueces/Colorado

Saturday, 12-1:00 - Bradford Ballroom

Conversation hour & Hors D'oeuvres: Handicapped Infants.  
Participants: Jeanne Brooks-Gunn, Marion Sigman, Peter Vietze.

Symposium: Infant temperament revisited: Is the behavior in the eye of the beholder?

Chair: Cynthia T. Garcia Coll

A tendency toward inhibition: Psychophysiological correlates and parental perceptions. Cynthia T. Garcia Coll.

+ Temperament as a part of social relationships: Implications of perceived infant difficultness. John E. Bates.

+ A multimethod theory-based assessment of infant temperament: A twin study. Hill Goldsmith.

+ Three approaches to the study of infant temperament. Mary K. Rothbart.

Discussant: Sean C. McDevitt

Saturday, 10-11:50  
San Antonio/Rio Grande

Chair: Elizabeth Bates  
Research reports: Early vocal communication in infancy.

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Saturday, 1-2:50  
Trinity

The temporal organization of infant limb movements. John M. Dowd, and Edward Z. Tronick.  
Chair: George Butterworth  
Workshop: Toward an integrative theory of visual-spatial development.

Edward Z. Tronick, and Frances D. Horowitz.  
Four-month-old infants' responses to adult-directed versus "Motherese" speech.

Vocalizations in mother-infant dialogues. Hanus Papousek and Mechthild Papousek.  
Musical elements in mother-infant dialogues. Mechthild Papousek.  
Development of visual sensitivity to a surface of support. Nancy Radner.  
Origins and functions of visual proprioception in infancy. George Butterworth.  
Dawn G. Taylor.  
Early mother-infant interaction: Implications for linguistic development.

Pre-language vocalizations and words. Carol Gibb Hardin.

Saturday, 1:2:50  
Bradford Ballroom

Research reports: Early mother-infant contact.

Saturday, 10-11:50  
Nueces/Coldorado

Chair: Jacob Gewirtz  
Research reports: Deliberate organization in the newborn infant. Betty Jean Panhabeker and Louis W. Sandner.

Cesarean childrenbirth: A replication and extension of effects on parent-infant interactions. Frank A. Pedersen, Martha J. Zaslow, Richard L. Cain, Jr., and Eva L. Krammer.  
Maternal sensitivity to infant's signals during the first year as related to the one-year-olds' behavior in ANSWORTH's strange situation. Klaus E. Grossman and Karen Grossman.

Anxious attachment as a predictor of disharmony in the mother-toddler relationship. Christine A. Mastin and John E. Bates.  
Preschool adaptation as a function of attachment history in a socially disadvantaged population. Donald F. Rabe and Byron Egeland.  
Chair: Byron Egeland  
Research reports: Attachments.

Maternal-newborn separation at birth in rats: Effect on body weight and body organ weight. Gene Cranston Anderson and Donna Westmoreland.  
Increased maternal contract with low birthweight infants in England. Joanne Hawthorne Amick.  
Outcome following rooming-in (RI) varies with maternal risk status. Susan O'Connor, Peter Veltze, Kathy Sherrard, Howard Sandler, Sue Geraty, and William Altemier.

Chair: Douglass Ramsey  
Research reports: Communication, laterality and developmental assessment. Douglass Ramsey.  
Eye-hand coordination in the newborn. Claes von Hofsten.  
Right-left turn-taking bases and different hand dominance. George F. Michel.  
Unimanual handedness and dually articulated syllable babbling in infants. Douglass S., Michael Hannon, and Carol Gibb Hardin.

Saturday, 10-11:50  
Trinity

Chair: Margaret Tresch Owen, and Lindsay Chasse-Lansdale.  
Origins of individual differences in attachment: Maternal, familial and infant variables. Margaret Tresch Owen and Lindsay Chasse-Lansdale.  
Maternal sensitivity to individual differences in attachment: Maternal, familial and infant one-year-olds' behavior in ANSWORTH's strange situation. Klaus E. Grossman and Karen Grossman.

Decreased maternal contract with low birthweight infants in England. Joanne Hawthorne Amick.  
Outcome following rooming-in (RI) varies with maternal risk status. Susan O'Connor, Peter Veltze, Kathy Sherrard, Howard Sandler, Sue Geraty, and William Altemier.

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Chair: Dale F. Hay and Sarah H. Sterniglanz  
Research reports: Socialability among young peers: Competence and limitations.

Chair: Douglass Ramsey  
Research reports: Communication, laterality and developmental assessment. Douglass Ramsey.  
Eye-hand coordination in the newborn. Claes von Hofsten.  
Right-left turn-taking bases and different hand dominance. George F. Michel.  
Unimanual handedness and dually articulated syllable babbling in infants. Douglass S., Michael Hannon, and Carol Gibb Hardin.

Chair: Dale F. Hay and Sarah H. Sterniglanz  
Research reports: Socioemotional contact between six-month-old peers. Dale Hay, Alison Nash, and Jan Pedersen.

Chair: Dale F. Hay and Sarah H. Sterniglanz  
Research reports: Toddler playmates at home. Sarah Sterniglanz and Rosemary Kravczyk.

Chair: Dale F. Hay and Sarah H. Sterniglanz  
Research reports: Toddler playmates at school. Rosemary Kravczyk and Sarah Sterniglanz.

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