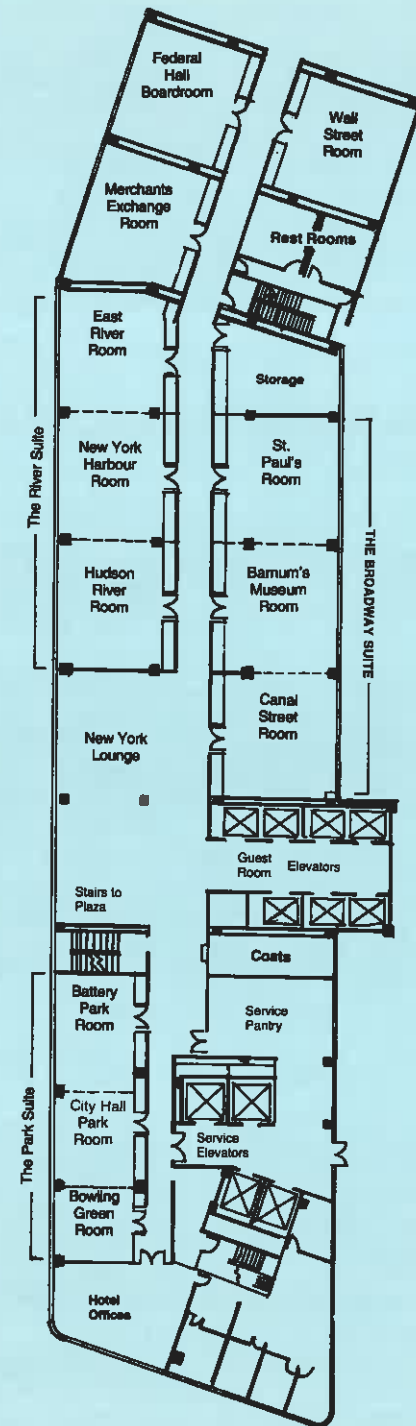


**International Conference on
Infant Studies
5-8 April 1984
New York, New York**





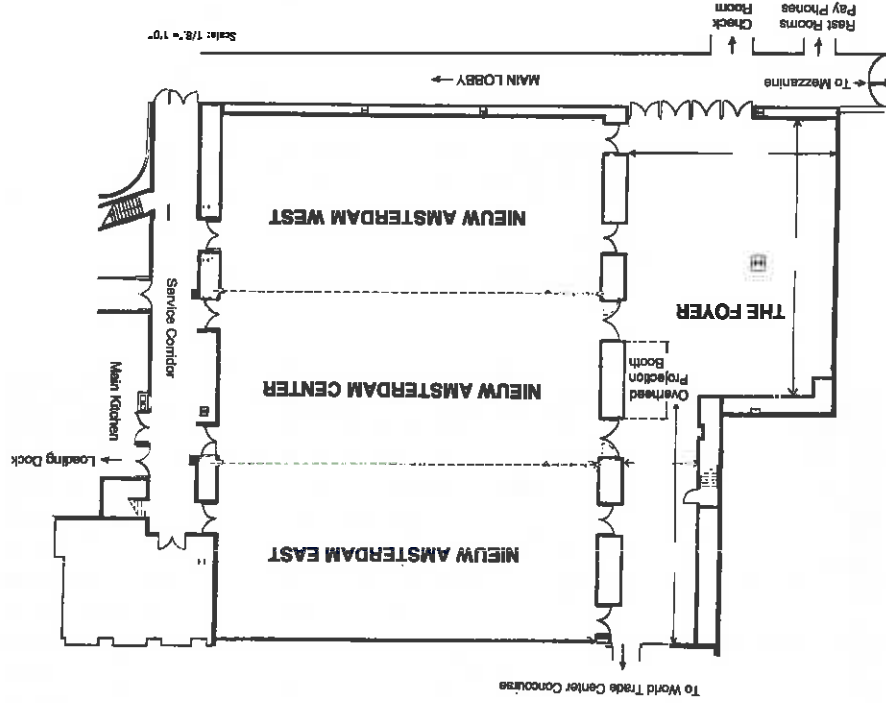
FOURTH BIENNIAL INTERNATIONAL CONFERENCE ON INFANT STUDIES

APRIL 5-8, 1984

Vista International Hotel
New York, New York

The goal of the fourth International Conference on Infant Studies, similar to the preceding three, 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. We hope this goal is realized.

The Program Committee would like to thank all who submitted abstracts. We received over 525 submissions, with 7%, 15%, and 78% assigned to the symposium, oral, and research display presentation categories, respectively. By area, the breakdown was: Applied - 13%; Biological Processes - 10%; Clinical: Behavioral Pediatrics - 12%; Clinical: Psychopathology - 6%; Cognition - 15%; Language - 6%; Perception - 12%; and Social-Emotional - 26%. We also received about 20 submissions which fell into the "other" category.



PROGRAM COMMITTEE;

Bernard Karmel, Chair

Coordinators

George Butterworth
Judith Gardner
Lorraine McCune-Nicolich
Hanus Papousek
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Review areas:

Applied

Peter Vietze, Chair
Roger Bakeman
Lila Beckwith
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Tiffany Field
Hiram Fitzgerald
Susan Goldberg
Diane Kurtzberg
Susan O'Connor
Steven Porges
Arnold Sameroff
Anita Sostek
Michael Yogman

Clinical:

Behavioral Pediatrics

Betsy Lozoff, Chair
Berry Brazelton
Dennis Drotar
John Kennell
Marshall Klaus
Lewis Leavitt
Richard Marshall
Arthur Parmelee
Albert Steinschneider
Barry Zuckerman

Clinical:

Psychopathology

Daniel Stern, Chair
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Susan Goldberg
Stanley Greenspan
Robert Harmon
Alicia Liberman
Joy Osofsky
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Language

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Ursula Bellugi
Peter Eimas
Charles Ferguson
Robertta Golinkoff
Joanne Miller
Dennis Molfese
Elinor Ochs
Steven Reznick
Katherine Snow
Marilyn Vihman

Perception

Richard Aslin, Chair
Bennett Bertenthal
Emily Bushnell
James Dannemiller
Peter Jusczyk
Daphne Maurer
Darwin Muir
Esther Thelen
Janet Werker
Albert Yonas

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Zarling, C.	Texas Res. Inst. Men. Sci., Houston	47
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<u>Biological Processes</u>		<u>Cognition</u>		<u>Social-Emotional</u>	
Martin Reite, Chair		Gerald Gratch, Chair		Michael Lamb, Chair	
Robert Harmon, Co-Chair		Albert Caron		Jay Belsky	
Robert Caron		Rose Caron		Joseph Campos	
Steven Forgas		Leslie Cohen		Robert Emde	
Jim Sackett		Joseph Fagan		Klaus Grossmann	
David Shucard		Jerome Kagan		Carl-Phillip Hwang	
Steven Suomi		Michael Lewis		Michael Lewis	
		Robert McCall		Hanus Papousek	
		Susan Rose		Abraham Sagl	
		Carolyn Rovee-Collier		Rudolph Schaffer	
		David Smilie		Ross Thompson	
		Mark Strauss			
		John Watson			

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Judith Gardner		Judith Gardner	
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Louise Hainline			
Joan Hittelman			
Susan Seidman			
Arietta Slade			
Myrna Turkewitz			
Gail Wasserman			

Walker, D.J.		Brown U. Med. Ctr., Providence	10
Walker, L.		U. of Texas, Austin	25
Walker-Andrews, A.S.		Rutgers U., New Brunswick	32
Wallace, I.F.		Albert Einstein Col. of Med., NYC	13
Wang, Z.Z.		Peking U. Med. Col., People's Rep China	42
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Ware, L.M.		Menninger Foundation, Topeka	30
Washburn, K.J.		U. of Texas, Austin	33
Wasserman, G.A.		NYSPI, Columbia U.	14
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Watson, J.S.		U. of Calif., Berkeley	46
Webb, T.E.		Children's Hosp. Med. Ctr., Akron	56
Weber, R.A.		Florida International U.	55
Weiler, K.		U. of Calif., Los Angeles	32
Weinberger, N.		Tufts U.	32
Weinraub, M.		Temple U.	5
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Weiss, M.J.		Tufts U.	6
Weizmann, F.		York U., Toronto	24
Wenckstern, S.		Windsor, Ontario, Can.	24
White, M.A.		U. of Florida, Gainesville	35
Wilde, S.H.		Lewis and Clark Col.	24
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Wilson, R.S.		U. of Louisville Health Sci. Ctr.	3
Wilm, S.		U. of Massachusetts, Amherst	34
Wolf, A.W.		Case Western Reserve U.	35
Wolke, D.		U. of London Inst. of Ed., UK	49
Wong, J.		U. of Western Ontario, Can.	16
Wood, R.		Case Western Reserve U. Sch. Med.	33
Woodruff, D.S.		Temple U.	54
Woodson, R.H.		U. of Texas, Austin	15
Worobey, J.		U. of Oklahoma, Norman	25
Worthington, D.		Boys Town, Omaha	42
Yamshchikov, A.N.		USSR Academy of Sciences, Moscow	54
Yeates, K.O.		U. of North Carolina, Chapel Hill	23

GENERAL INFORMATION

Hotel:

The Conference will be held at the Vista International Hotel, Three World Trade Center, New York, New York 10048 (212-938-9100) located in the World Trade Center complex in downtown New York City. The Roosevelt Hotel located at Madison Ave. and 45th St. near Grand Central Terminal (800-442-8420 or 212-661-9600) has been designated the overflow hotel.

Transportation:

New York City is served by three major international airports: La Guardia, Kennedy, and Newark. Pan American Airlines has been designated the official Conference airline (for information about special fares, call 1-800-327-8670). The reference number for Pan Am for ICIS airfare discount is CVM13136. Helicopter (for information about discounts and ICIS special fare, call 1-800-645-3494), limousine, and taxi service can be obtained from the airports. There are express buses (Carey Lines) between the airports and Manhattan where taxi or subway transportation can be used to get to the hotels.

Local Transportation:

The Vista is about a 20 minute trip downtown by subway from the Roosevelt. The subway stop closest to the Roosevelt is located in Grand Central Station. All three New York City subway systems - the IRT, BMT, and IND - have stops within the World Trade Center complex or a short walk (1-2 blocks) from it. The Port Authority Trans-Hudson (PATH) system links the World Trade Center with points in New Jersey.

Registration:

Registration will take place in the New York Lounge on the Conference level (third floor) beginning on Thursday morning at 10 am.

Thompson, L.A.	U. of Colorado	26
Thompson, R.A.	U. of Nebraska	18, 39
Thorpe, L.A.	U. of Toronto, Erindale Col.	19
Tinsley, B.J.	U. of Illinois, Champaign-Urbana	16
Tirosh, E.	Haifa Med. Ctr., Israel	55
Todd, C.	U. of Minnesota	38
Tomasello, M.	Emory U.	20
Touris, M.	Loyola U.	17
Trause, M.A.	Fairfax Hosp., Falls Church, Va.	34
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Trossman, C.	McMaster U., Hamilton, Can.	34
Trowell, J.	Tavistock Clinic, London, UK	23
Turkewitz, G.	City U. of New York, Hunter Col.	21, 44, 54
Ungerer, J.	Macquarie U.	20
Urwin, C.	U. of Cambridge, UK	10
Uzgiris, I.C.	Clark U.	7, 16
Valsiner, J.	U. of North Carolina, Chapel Hill	26
Van Ijzendoorn, M.H.	Rijksuniv., Leiden, NL	22
Vanucci, R.	New York Hosp.-Cornell Med. Ctr.	47
Vasek, M.E.	Clark U.	7
Vaughan, H.G.	Albert Einstein Col. of Med., NYC	42
Vaughn, B.	Ill. Inst. for Devel. Disabil.	45
Vega-Lahr, N.	U. of Miami Med. Sch.	47
Vella, D.	McMaster U., Hamilton, Can.	47
Venuti, P.	U. of Padua, Italy	4
Ver Hoeve, J.N.	U. of Wisconsin, Madison	33, 42
Verba, M.	CRESAS, Paris, FR	8
Vietze, P.M.	Mental Retard. & Devel. Disabil., NICHD	50
Vohr, B.	Brown U. Med. Ctr., Providence	10
Volterra, V.	CNR Inst. of Psychol., Rome, Italy	20
Voorhies, T.	New York Hosp.-Cornell Med. Ctr.	47
Voss, H.-G.	Tech. Hochs. Darmstadt, W. Ger.	18
Wurpillot, E.	U. of Rene Decarte, Paris, FR	32
Wagman, I.	U. of Wisconsin, Madison	45

Program Format:

PLEASE NOTE - This program is organized by morning, afternoon, or evening sessions. Scheduled times for contributions are arranged by meeting room name within these sessions.

Meeting rooms:

Symposia and oral presentations will be held in the West, Center and East Rooms of the Nieuw Amsterdam Ballroom in the Vista, as well as in the Oval Room in the World Trade Center. The Nieuw Amsterdam Ballroom is located on the lobby level. The Oval Room is reached by taking the elevator in the World Trade Center to the 44th floor. Research displays will be presented in the River, Broadway, and Park Suites on the Conference level (third floor). Research displays and/or presentations using audio-visual materials will be held in the Merchants Exchange Room on the Conference level. The Conference office and hospitality desk will be located in the Federal Hall Boardroom on the Conference level.

Research Displays:

Research Displays will be on view for the entire scheduled session. The display rooms will be open 15 minutes before the start of each session to allow for setting up. Authors are encouraged to provide handouts for distribution at the Conference and to provide a sign-up sheet for more extensive requests.

PLEASE NOTE - Although authors may wish to spend the entire session at their displays, they are only required to be present for the designated hours listed below.

First hour of session: Park Suite.

Second hour of session: Broadway Suite.

Third hour of session: River Suite.

Exhibitors:

Exhibitors will be located in designated rooms on the fourth floor of the Vista.

43	U. of Cincinnati Med. Col.
43	U. of Cincinnati Med. Col.
32	U. of Kansas, Lawrence
54	U. of Texas, Austin
15, 37	Cornell U. Med. Col.
19	State U. of New York, Buffalo
17, 33	U. of Wisconsin, Madison
13, 39	U. of Michigan
8	UNIMJ-Burgers Med. Sch.
47	New York Med. Col.
26, 27	Erikson Inst., Chicago
21	U. of Pittsburgh
32	U. Rene Decarte, Paris, FR
53	U. of Berne, Switz.
41	Haskins Labs, New Haven
46	UNIMJ-Burgers Med. Sch.
30	U. of Washington
45	U. of Wisconsin, Madison
42	Baudeloque Hosp., Paris, FR
4, 23	ICE, NICHOL
22	Rijksumiv., Leiden, NL
43	Mt. Zion Med. Ctr., San Francisco
18	Soka U., Tokyo, Japan
22	Rijksumiv., Leiden, NL
5	U. of Utrecht, NL
35	Concordia U., Montreal, Can.
27	U. of Connecticut Health Ctr.
18	U. of Rochester
26, 56	U. of Vermont
13	U. of Oslo, Norway
15, 40	U. of Missouri, Columbia
15	U. of Connecticut, Storrs
49	New York U. Med. Ctr.
43	Natl. Jewish Hosp. & Res. Ctr., Denver
25	U. of Texas, Austin

Steichen, J.J.
Steichen-Asch, P.A.
Steiner, L.C.
Stephens, B.R.
Stern, D.
Stern, M.
Stevenson, M.B.
Stiefel, G.S.
Stillwell, R.
Stoch, M.B.
Stott, F.M.
Strauss, M.S.
Streri, A.
Stucki, M.
Studdert-Kennedy, M.
Sullivan, M.W.
Sauner, G.
Suomi, S.J.
Sureau, C.
Swalsky, J.T.
Swann, J.
Sweet, D.
Takahashi, K.
Tavecchio, L.W.
Tanke, M.J.
Taylor, N.
Tennen, H.
Tero, R.F.
Teti, D.M.
Tetzchner, S. von
Theilen, E.
Thoman, E.B.
Thomas, A.
Thomas, D.G.
Thompson, R.

Business Meetings:

A general business meeting will be held on Sunday at 12:20 pm in Nieuw Amsterdam West.

A meeting of the Steering Committee will be held on Friday at 12:30 pm in the Federal Hall Boardroom.

Banquet:

A 10-course traditional New York Chinese banquet will be held at the Silver Palace Restaurant, 52 Bowery, in New York's Chinatown on Friday evening, April 6th, at 7:30 pm. Reservations are required. Subject to availability, on-site reservations can be obtained at registration or at the Hospitality Room until 7:00 pm Thursday evening. Information about a walking tour from the Vista to Chinatown will be posted at the Conference.

Things to do, places to go:

Information concerning things to do and places to visit, including restaurants and theater discount tickets, will be provided in the registration area and in the Hospitality Room. A limited number of discount coupons for Broadway shows also will be available. There is a desk at the Vista where tickets can be purchased for a surcharge.

The Plaza level (second floor) of the Vista contains three restaurants, a cocktail lounge, and a sitting area. A fourth restaurant is located on the Lobby level. The Concourse of the World Trade Center contains numerous restaurants and shops.

No-host cocktail parties for Thursday, Friday, and Saturday evenings from 6:15 - 7:15 pm will be held in the Nieuw Amsterdam Ballroom Foyer located on the Lobby level. Prices will be \$3.75 for a mixed drink.

Silcock, A.	U. of Queensland, Australia	27
Simons, C.J.R.	Pennsylvania State U.	25
Simpson, J.	Virginia Polytechnic Inst.	35
Sinclair, H.	U. of Geneva, Switz.	8
Singer, L.	Case Western Reserve U. Sch. Med.	33
Simmott, J.M.	Indiana U.	19
Slade, A.	City U. of New York, City Col.	18
Slater, A.M.	U. of Exeter, Devon, UK	51
Slaymaker, F.L.	Loyola U.	45, 56
Slutzy, S.	U. of Calif., Los Angeles	20
Smith, I.	U. of Minnesota	32
Smith, L.	U. of Oslo, Norway	13
Smith, R.F.	George Mason U.	45
Smith, R.H.	St. Peters Med. Ctr.-Rutgers Med. Sch.	56
Smith, R.N.	U. of Minnesota	52
Smith, S.	U. of Chicago Child Psychiatry Clinic	30
Smorvik, D.	U. of Oslo, Norway	13
Smythe, P.M.	U. Natal, Rep. S. Afr.	47
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Snow, K.	Harvard U.	1
Sokol, R.J.	Wayne State U.	35
Sokol, S.	Tufts-New England Med. Ctr.	11
Solomon, C.R.	U. of Montreal, Can.	47
Sommer, F.	U. of Oslo, Norway	13
Sophian, C.	Carnegie-Mellon U.	11
Sorknes, A.C.	U. of Minnesota	53
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Sroufe, L.A.	U. of Minnesota	37
St. James-Roberts, I.	U. of London Inst. of Ed., UK	49
Stack, D.M.	U. of New Brunswick, Can.	46
Stahlecker, J.E.	U. of Calif., San Francisco	19

Thursday, April 5
1:00 - 3:15 pm

Arranged symposium: Methodologies to evaluate structural and functional integrity of newborns under intensive care.

Chair: R. Marshall

Participants:

The role of ultrasound scanning in relation to intracranial pathology in the newborn. J. Perlman.

Oxygen transport measurements and their use in the management of the high-risk newborn. R.G. Brown.

Rhythms in neonatal heart-rate: diagnostic and prognostic implications. S.W. Forges.

Neurofunctional assessments of brain function using brain stem and other electrophysiological potentials. B.Z. Karmel.

3:30 - 4:25 pm

Nieuw Amsterdam West.

Arranged presentation: Ethical issues in newborn intensive care.

E.W.D. Young.

Discussion Leader: L.R. Lipsitt.

1:00 - 3:00 pm

Nieuw Amsterdam Center.

Oral presentations: Language development.

1:00 - 1:40 pm. Categorical vocal cues in parental communication with presyllabic infants. M. Rapousek & H. Rapousek.

1:40 - 2:20 pm. The perceptual, affective, and linguistic salience of mothers' speech to infants. A. Fernald.

Discussion Leader: K. Snow.

2:20 - 3:00 pm. Self-other reference in mother-infant interaction: A longitudinal study. K. Durkin & D.R. Rutter.

Discussion Leader: S. Feinman.

Children's Hosp., Natl. Med. Ctr. 33
U. of Pennsylvania 53
U. of Toronto, Erindale Col. 29
Tech. Hochs. Darmstadt, W. Ger. 5, 7
The Therapy Inst. 25
U. of Connecticut, Storrs 15
CUNY, Marquette, RR 52
Children's Hosp., Boston 13
Max Planck Inst., Berlin, W. Ger. 16
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U. of Oklahoma 25
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Natl. Jewish Hosp. & Res. Ctr., Denver 43
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Nieuw Amsterdam Center.

Thursday, April 5
3:30 - 4:50 pm

Oral presentations: Infant-caregiver interaction.

3:30 - 4:10 pm. Infant attention and caregiver stimulation: Two contributions to early cognitive development. M.H. Bornstein.
Discussion Leader: J.F. Fagan.

4:10 - 4:50 pm. A paradigm of mother-infant reciprocity: Affect and attention modulation. L. Brent & R.C. Resch.
Discussion Leader: E. Waters.

Nieuw Amsterdam East.

1:00 - 3:15 pm

Symposium: Attachment, adaptation and continuity.

Chair: M.D.S. Ainsworth.

Participants:

Parental sensitivity to infants' psychological needs and infants' emotional adaptiveness. K.E. Grossmann.

Attachment relationships and personality development. I. Bretherton.

Attachment: A move to the level of representation. M. Main.

✓ Attachment versus temperament. E. Waters.

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Rowe, J.C.	U. of Connecticut Health Ctr.	15
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Sale, J.	Virginia Polytechnic Inst.	35
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Samuels, C.	U. of Calif., Berkeley	14
Sander, L.W.	U. of Colorado Med. Ctr.	25
Sanders-Woudstra, J.	Sophia Children's Hosp., Rotterdam, NL	24
Sardo, D.L.	U. of Delaware	20
Sarnat, L.Z.	Stanford U.	4
Scanlan, J.M.	U. of Wisconsin, Madison	45
Scanlon, J.W.	Georgetown U. Sch. of Med.	43, 45
Scanlon, K.B.	Georgetown U. Sch. of Med.	43

Thursday, April 5
3:30 - 4:50 pm

Oral presentations: Cross-cultural caretaking.

3:30 - 4:10 pm. Hunting and gathering societies: An empirical basis for exploring biobehavioral processes in mothers and infants. M.H. Klaus & J.H. Kennell.
4:10 - 4:50 pm. Multiple caretaking in the niche of human evolution. E.Z. Tronick & G.A. Morelli.
Discussion Leader: T. Field.

Oval Room (World Trade Center).
1:00 - 2:45 pm

Symposium: Developmental behavioral genetics of infancy.
Chair: R. Plomin & J.C. DeFries.

Participants:
Developmental genetics versus quantitative genetics as tools for understanding behavioral development. H.H. Goldsmith.
Newborn to 12 months: Continuities in behavior for infant twins. M.L. Riese.
Twins and chronogenetics: Correlated pathways of development. R.S. Wilson.
Developmental behavioral genetics of infancy: The Colorado adoption project. R. Plomin and J.C. DeFries.

Oval Room (World Trade Center).
3:30 - 4:50 pm

Oral presentations: Event perception.

3:30 - 4:10 pm. Infant perception of a complex affordance. A.J. Caron, R.F. Caron, & S.G. Anzell.
4:10 - 4:50 pm. Infants' perception of the traversability of surfaces. E.J. Gibson & G. Riccio.
Discussion Leader: H.A. Ruff.

U. of Colorado
U. of Michigan Med. Sch.
Tufts U.
U. of Quebec, Montreal, Can.
U. of Illinois
Washington U. Sch. of Med.
Peabody Col. of Vanderbilt U.
U. of Houston
U. of Missouri, Columbia
U. of Virginia
Cleveland State U.
LCE, NICHD
U. of North Carolina, Chapel Hill
Butgers U., N. Brunswick, N.J.
U. of Vermont Col. of Med.
CHRSAS, Paris, FR
Loyola U.
U. of Minnesota
U. of Colorado Med. Sch.
Memorial Sloan Kettering Cancer Ctr.
U. of Pennsylvania
Harvard U.
Darcy Sch., Connecticut
U. of Montreal, Can.
Cornell U.
U. of New Brunswick, Can.
City U. of New York, Hunter Col.
West Virginia U.
U. of Massachusetts, Amherst
Vanderbilt U.
U. of Louisville Sch. of Med.
Vanderbilt U.
U. of Texas, Austin
2nd Sch. of Med., Naples, Italy
U. of Wisconsin, Madison
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Plomin, R.
Plunkett, J.W.
Polan, M.
Pomerleau, A.
Porjes, S.W.
Porter, F.
Poulson, C.L.
Power, T.G.
Presson, C.C.
Proffitt, D.R.
Prubucki, K.
Rabinovich, B.A.
Ramey, C.T.
Ramey, D.
Rauh, V.A.
Rayna, S.
Reich, J.N.
Reisman, J.
Reite, M.
Resch, R.C.
Rescorla, L.
Reznick, J.S.
Rho, L.
Ricarid, M.
Riccio, G.
Richards, C.
Richards, M.
Richardson, G.A.
Ricks, M.
Rider, E.A.
Riese, M.L.
Rieser, J.J.
Rieser-Danner, L.
Rinaldi, P.
Roach, M.A.

Thursday, April 5

Research Displays:

River Suite: Social Development.

1:00 - 4:45 pm

East River Room: Cultural effects.

Understanding of gender and sex typed play in infancy. M. O'Brien & A.C. Huston.

✓ The relationship of maternal beliefs about sex-typing to maternal and infant behavior. L. Luciano.

The influence of maternal employment, attachment pattern, extrafamilial child care, and previous experience with peers on early peer interaction. D.E. Wille & J.L. Jacobson.

An observation study of the transition to maternal employment. B.A. Rabinovich, J.T. Suwalsky, & F.A. Pedersen.

Patterns of infant behavior and the emergence of visual self recognition. J. Jaskir.

Development of the body image in a sample of 60 children aged 18- to 36-months: An experimental study. A. Lis, P. Venuti, & S. Carraro.

✓ Parent-infant play: Early gender differences. L. Roggman.

New York Harbour Room: Socialization.

Social interactions among infants, toddlers and caregivers in EDC in Israel. M.K. Rosenthal.

The emotional and social adjustment of infants to day-care centres. I. Harsman.

Violations to adult requests in Israel. Kibbutz and town toddlers. S.S. Feldman & L.Z. Sarnat.

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Thursday, April 5

Research Displays: River Suite (continued)

New York Harbour Room: Socialization. (continued)

Family influences on child compliance, and parent control techniques at home and in the laboratory. C. Howes, M. Olenick, C. Goldenberg, J. Golub, & M. Lee.
The motivation of parents to interact with infants: Studies in Israeli cultures. C.W. Greenbaum, J. Auerbach, R. Gutman, S. Beilisssein, S. Massalha, & S. Hai-Am.
Division of labour in families with infants. V. Gotzsche.
Correlates of sleeping arrangements of infants in Kibbutzim. Z. Levi.

Hudson River Room: Home environment and social issues.

The influence of infant and toddler group care on the child's life at home. C.P. Edwards, S. Loehr, M.E. Logue, & S. Roth.
Early infancy in the family: The ecology of social development from a systemic viewpoint. K. Kreppner.
Similarity in the quality of attachment between first- and second-born siblings and their mothers. H.-J. Meyer & A. Schoelmerich.

Children's behaviors in the presence of a male and female stranger: A study of single and two parent families. S. Ansol & M. Weinraub.

Home environment and early cognitive development: Integration, meta-analyses, and conclusions of longitudinal studies in North America. A.W. Gottfried.

Development of a clinical measurement instrument of children's home environments. P.H. Casey & R.H. Bradley.
Social contacts with very low birth weight children and the development of their social orientation responses. M.J. Tanke, J.M.A. Hermanns, M. Lechner, & B.P. Cats.

8	Purdue U.
32, 47	U. of Kansas, Lawrence
30	U. of Washington
54	USSR Academy of Sciences, Moscow
18, 22	Hokkaido U., Kita-ku Sapporo, Japan
45	U. of Illinois, Chicago
47	S. Afr. Med. Res. Council
33, 36	Freie U. Berlin, W. Ger.
3, 34	U. of Massachusetts, Amherst
19	U. of Toronto, Etobicoke, Ont.
6	U. Col., Cardiff, Wales, UK
25	West Virginia U.
20	U. of Calif., Los Angeles
42	Boys Town, Omaha
34	Children's Hosp., Natl. Med. Ctr.
26, 27	Quince of Protection Fund, Chicago
16	Virginia Commonwealth U.
40, 51	U. of Maryland Sch. of Med.
47	Rush-Presby. St. Luke's Med. Ctr.
55	U. of Maryland Sch. of Nurs.
56	Purdue U.
38	City U. of New York, Grad. Ctr.
20, 33	Pennsylvania State U.
47	Rush-Presby. St. Luke's Med. Ctr.
36	Theraplay Inst., Chicago
42	U. of Nebraska Med. Ctr.
26	Jagiellonian U., Cracow, Poland
25	U. of Oklahoma
42	Hebrew U., Jerusalem, Israel
43	Boston U. Sch. of Nursing
56	U. of Vermont Col. of Med.
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35	U. of Calif., Los Angeles
47	III. Inst. for Devel. Disabil.
43	Mt. Zion Med. Ctr., San Francisco

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O'Hara, K.	

Thursday, April 5

Research Displays:

Park Suite: Cognition and movement. 1:00 - 4:45 pm

Battery Park Room: Object permanence and search activity.

Piagetian stage IV errors with an object that is directly accessible both visually and manually. J.G. Bremner & L.S. Knowles.

The infant-environment relationship and the development of knowledge. J.G. Bremner & A. Lock.

The potentiating role of non-discriminative, non-functional cues in infant search. S.E. Lloyd & N.H. Freeman.

Reasoning about hidden obstacles: Object permanence in the six-month old infant. R. Baillargeon.

The development of blind infants' search for dropped objects. A. Bigelow.

Visual tracking and anticipation in a permanent object task in 4- and 9- month-old infants. S. Ortega & H. Bloch.

Learning to find things on the page of a book: Patterns of visual search in toddlers. N. Goodman & J.J. Rieser.

Bowling Green Room: Movement and asymmetry. *schultz*

Infant actometers: A technique for measuring coordinated movements. P.M. McDonnell & C. Richards.

Is there a stage of left-sided precocity during early manual development? J. Liederman.

Infants' spontaneous head position postures: Birth through nine months of age. C.L. Barnes, L. Kamptner, & H.E. Fitzgerald.

Peripheral detection and postural asymmetry in infants. A. Bulinger.

Postural sequences in the 3-day old neonate. H. Muhiudeen & G. Melville-Thomas.

The cephalocaudal hypothesis: A comparison of infant leg kicks and arm flexions in water. M.J. Weiss & P.R. Zelazo.

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Thursday, April 5

Research Displays:

Broadway Suite: Social interactions.

1:00 - 4:45 pm

St. Paul's Room: Peer-peer interactions.
 Peer interactions during infancy. S. Rayna.
 Competition for toys in 9-11 month old boy-girl twins. M. De-Boer.
 Will you play with me? Differential responses by sex of partner, play activity, and friendship status. C. Howes.
 The influence of attachment pattern on peer interaction at 2 and 3 years. J.L. Jacobson & D.E. Wille.
 Relationships between quality of childcare and quality of peer play in Swedish infants. C.-Ph. Hwang, A. Broberg, M. Rodin, & M.E. Lamb.
 Cognitive-motor look at infant-infant interactions. F. Flament.
 Social correlates of peer competency. M.P. Espinosa.

Bertrum's Museum Room: Mother-infant interactions.
 A comparison of dual modality initiations and subsequent interactive structure in dyads with deaf infants. C.M. Bolebruch.
 Correlates of stability and change in mother-infant attachment between 12 and 20 months. W.S. Groinick & L.J. Bridges.
 Mother-infant face to face interaction: Developmental modifications in sequential properties of the interaction. J.F. Cohn, E. Kratchuk, & M. Ricks.
 A longitudinal study of matching activity in mother-infant interaction. I.C. Uzgritis, M.E. Vasek, & J.B. Benson.
 Imitation during mother-infant interaction in the first six months of life. J. Marcus.
 A modeling approach for interactional data. A. Schoenmerich. R. The development of shared attention in a free play setting. R. Allen, C.A. Wasserman, & S. Seidman.

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New York Hosp.-Cornell Med. Ctr.

Brown U.

U. of Padua, Italy

Cleveland Metrop. Gen Hosp.

U. of Brit. Columbia, Can.

U. of Lancaster, UK

Tulane U.

U. of Massachusetts, Amherst

U. of Massachusetts, Amherst

U. of Waterloo, Can.

Case Western Reserve U. Sch. Med.

City U. of New York, Grad. Ctr.

Educ. Testing Service, NJ

U. of Regensburg, W. Ger.

Harvard Med. Sch.

Cornell U. Med. Col.

U. of Western Ontario, Can.

U. of Nebraska Med. Ctr.

U. of Washington, Seattle

Loyola U.

U. of Calif., Berkeley

Virginia Polytechnic Inst.

New Sch. for Social Res., NYC

Fairfax Hosp., Falls Church, Va.

U. of Minnesota

2nd Sch. of Med., Naples, Italy

U. of Chicago

U. of Alberta, Edmonton, Can.

U. of Wisconsin, Madison

McMaster U., Hamilton, Can.

Washington U. Sch. of Med.

Hosp. de Gery, Prilly, Switz.

Mt. Zion Med. Ctr., San Francisco

Case Western Reserve U. Sch. Med.

Hebrew U., Jerusalem, Isr.

Lippert, E.G.

Lipsett, L.P.

Lis, A.

Livingson, A.R.

Lloyd, S.R.

Lock, A.

Lockman, J.

Loehr, S.

Logue, M.E.

Lollis, S.P.

Lozoff, B.

Lucariello, J.

Luciano, L.

Lutkenhaus, P.

Lyons-Ruth, K.

Mackain, K.

MacLellan, C.B.

Madison, L.S.

Mayhew, D.

Mayer, R.

Meln, M.

Mello, M.L.

Malatesta, C.Z.

Malek, V.R.

Malone, S.

Mansi, G.

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Martio, K.

Marta, L.

Martshall, L.

Martshall, R.

Martino, D.

Martin, J.

Martin, R.J.

Massalha, S.

Thursday, April 5

Research Displays: Broadway Suite (continued)

Canal Street Room: Peer-peer interactions.

Infants' affective displays with mothers and peers. R. Bakeman & L.B. Adamson.

Interactions of six-month olds with preschooled aged children. J.

Mistry, A. Fogel, & G. Melson.

Toddlers with older playmates, toddlers becoming acquainted with playmates: Some of the social consequences. M.A. Chalkley.

Toddler peer interaction in mixed age groups. C. Rothstein-Fisch.

Continuities in sibling relationships. R. Stillwell & J. Dunn.

Toddlers' responses to the distress of their peers. J. Farver.

Collaboration among children. M. Verba & H. Sinclair.

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Thursday, April 5

5:15 - 6:15 pm

Nieuw Amsterdam Ballroom.

Invited address: Objectivity in methods of evaluation in early diagnosis and neurorehabilitation of brain-injured infants.

Chair: B.Z. Karmel

Speaker: F. Katona

Nieuw Amsterdam Ballroom Foyer.

No-host Cocktail Party.

6:15 - 7:30 pm

38 State U. of New York, Stony Brook
Massachusetts Hosp. Sch., Canton
Tech. Hochs. Darmstadt, W. Ger.
Case Western Reserve U. Sch. Med.
U. of Oregon
Simon Fraser U.
Michigan State U.
Glenview, Illinois
Loyola U.
Cleveland State U.
Cleveland State U.
Case Western Reserve U.
Pennsylvania Col. of Optometry
U. of Lancaster, UK
U. of Leiden, NL
NorthCar Med. Grp., Evanston, Ill.
Loyola U.
North Shore Children's Hosp., Mass.
Fairfax Hosp., Falls Church, Va.
U. of Virginia
Max Planck Inst., Berlin, W.Ger.
Rijksuniv., Leiden, NL
Loyola U.
Clark U.
U. of Washington
Albert Einstein Col. of Med., NYC
U. of Nebraska Med. Ctr.
City U. of New York, Grad. Ctr.
U. of Alberta, Edmonton, Can.
U. of Rome, Italy
U. of Utah, Salt Lake
Rainbow Babies & Children's Hosp.
U. of Victoria, B.C., Can.
Columbia U.
U. of Wisconsin, Madison
45

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Keller, H.
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Laisardi, C.
Lamb, M.E.
Lambert, S.
Lampard, R.
Landau, B.
Lande, J.S.

Nieuw Amsterdam West. Thursday, April 5
8:10 - 10:00 pm

Symposium: Meaning and measurement of patterns of change in neonatal behavior.

Chair: B.M. Lester.

Participants:

Computing individual profile curves and predicting to 18-month outcomes in term and preterm infants. B.M. Lester, J. Hoffman, & T.B. Brazelton.

Predicting recovery from perinatal asphyxia. C. Jackson, D.J. Walker, C. Garcia-Coll, & B. Vohr.

Neonatal and one-year followup of maternal obstetric medication effects. C. Sepkoski.

A systems approach to neonatal functioning. T.B. Brazelton.

Discussant: F.D. Horowitz

Nieuw Amsterdam Center. 8:10 - 10:00 pm

Symposium: Conflict and cooperation: Emotion and the development of social understanding.

Chair: J. Dunn.

Participants:

The developmental origins of social conflict. D.F. Hay.

Prosocial and antisocial behaviors in toddlers: Actions as reflections of children's early compensation of their social-emotional worlds. C. Zahn-Waxler.

Conflict and reparation between peers and parents: Observations of infants between six months and two years. C. Urwin.

Conflict in the family and the development of social understanding. J. Dunn.

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Thursday, April 5
8:10 - 10:00 pm

Nieuw Amsterdam East.

Symposium: Toddler's spatial problem solving: Inference or available information.
Chair: J.J. Rieser.
Participants:
Shortest-route behavior: Spatial inference or using the information given? J.J. Rieser.
Inferring invisible movements in infancy. C. Sophian.
Spatial knowledge and infant detour ability. J.J. Lockman.
Frames of reference and syllogistic inferences in the spatial behavior of toddlers. C.C. Presson.

Oval Room (World Trade Center).
8:10 - 10:00 pm

Symposium: Measures of visual function in infants at-risk for visual disorders.
Chair: V. Dobson.
Participants:

Preferential looking measures as predictors of visual outcome in preterm infants. V. Dobson & S.L. Sebris.
Visual acuity of infants with developmental delay. D.L. Mayer.
Optokinetic nystagmus and preferential looking as measures of visual resolution in children treated for congenital cataracts.
T.L. Lewis, D. Maurer, & H.P. Brent.
Comparison of VEP and FPL estimates of visual function in visually abnormal infants and young children. S. Sokol.
Technique effectiveness varies with the disorder. J. Allen.

35	U. of Chicago
54	City U. of New York, Grad. Ctr.
56	U. of North Carolina, Chapel Hill
17	Loyola U.
55	Haifa Med. Ctr., Israel
32	Children's Hosp. Med. Ctr., Boston
41	Mich. State. U.
35	Cleveland Metro. Gen./Highland View Hosp
4	Stockholm Inst. of Ed., Sweden
54	U. of Texas, Austin
45	Northwestern U. Med. Sch.
10	State U. of New York, Stony Brook
32	U. of Denver
55	Columbia U. Col. of Med.
19	U. of Maryland, College Park
20	Pennsylvania State U.
55	U. of Calif., Los Angeles
29	Massachusetts Inst. of Technology
5	U. of Utrecht, NL
43	Mt. Zion Med. Ctr., San Francisco
45	U. of Wisconsin, Madison
19	State U. of New York, Buffalo
26	U. of North Carolina, Chapel Hill
34	Fairfax Hosp., Falls Church, Va.
45	U. of Wisconsin, Madison
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24	U. Southern Calif. Med. Ctr.
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Higley, J.D.
Hildebrandt, K.A.
Hill, P.E.
Hilliard, J.K.
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Hirsch-Pasek, K.
Hock, E.
Hodgman, J.E.
Hofer, M.A.
Hoffman, J.
Hofsten, C. von
Hogan, A.E.
Hollenbeck, A.R.
Holmes, D.L.
Honig, A.S.

Friday, April 6

Nieuw Amsterdam West.

8:30 - 10:15 am

Symposium: Perception and action: Perspectives on the development of knowledge in infancy.

Chair: E.S. Spelke & G. Pieraut-Le Bonniec.

Participants:

Infants' perception and manipulation of objects. C. von Hofsten & E.S. Spelke.

Decalage in object concept: Moving vs stationary object. M. Richard & T. Gouin-Decarie.

Motor-visual integration and the development of the concept of containment. G. Pieraut-Le Bonniec.

Perception and affordances for action. E.J. Gibson.

Nieuw Amsterdam West.

10:30 - 11:50 am

Oral presentations: Higher order perception.

10:30 - 11:10 am. The infant's encoding of simple causal events. A.M. Leslie.

11:10 - 11:50 am. The bimodal perception of speech during early infancy. H. McGurk.

Discussion Leader: L.B. Cohen.

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Gotzsche, V.	Aarhus U., Denmark	5
Gouin-Decarie, T.	U. of Montreal, Can.	12
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Gunnar, M.R.	U. of Minnesota	45
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Friday, April 6
8:30 - 10:15 am

Nieuw Amsterdam Center.

Symposium: The relationship between prematurity and functioning in the school age child: The role of biological and environmental factors.
Chair: L.S. Siegel.

Participants:
Very low birthweight children: Patterns of intellect at 8 years. J.V. Hunt.

Longitudinal follow-up of low birthweight children to five years. L. Smith, D. Smorvik, F. Sommer, & S.V. Tetzchner.
Behavior of VLBW children at school. N.K. Klein.
Indicators of cognitive functioning in school-aged LBW children. I.F. Wallace.

Cognitive sequelae of severe and chronic perinatal illness among preterm infants in the second year. S.J. Meisels, J.W. Plunkett, P.L. Pasick, G.S. Stiefel, & D.W. Koloff.

Nieuw Amsterdam Center.

10:30 - 11:50 am

Oral presentations: Prediction of cognitive development.
10:30 - 11:10 am. An outcome comparison of two cohorts of low birth weight infants born five years apart. C.M. McCarton.
11:10 - 11:50 am. Cognitive & linguistic development from birth to three years of age: Do premises catch-up? M.C. Schultz, J.W. Liebergott, & P. Menyuk.
Discussion Leader: M. Hack.

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Indiana U.

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U. of Chicago

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U. of Bristol, UK

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U. of Rochester

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L.A. CNRS 315, Paris, FR

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U. of Denver

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Frodi, A.

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Gagnon, C.

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Ganaze, D.

Garber, B.D.

Garcia-Coll, C.

Gardner, J.M.

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Gershman, K.

Gibbs, E.D.

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Gleser, G.C.

Glicksman, M.L.

Goff, D.M.

Goldberg, S.

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Goldfield, A.

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Goldsmith, H.H.

Goldinkoff, R.M.

Golub, J.

Goodman, G.S.

Goodman, N.

Nieuw Amsterdam East. Friday, April 6
8:30 - 11:15 am

Symposium: Thinking, feeling and acting sad: Contributions to a theory of affective development.

Chair: G.A. Wasserman.

Participants:

Affective expression in toddlers of depressed and nondepressed mothers: Vulnerability to shame. J.L. Aber.

Studies of depression in infants and children: Contribution to a theory of affective development. D. Cicchetti.

Thinking about emotions. M. Lewis.

Affective expression in normal and physically handicapped toddlers: Situational and developmental effects. G.A. Wasserman.

Nieuw Amsterdam East. 10:30 am - 12:15 pm

Symposium: The development of conception of self.

Chair: C. Samuels.

Participants:

I am born, now do I exist. C. Samuels.

The development of gender identity during infancy. S. Aitken.

The conservation of the self: A developmental analysis of children's conception of the distinctiveness and continuity of selfhood. M. Chandler.

One source of information for self in visual feedback from self motion. G. Butterworth.

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Friday, April 6
8:30 - 10:15 am

Symposium: Adaptation and constraint: Viewpoints on evolution and infancy.
Chair: E. Thelen.
Participants:

Dynamic constraints in structure and function during infancy. E. Thelen.
Ontogenetic adaptations in neurobehavioral development. R.W. Op-
penheim.
Neonatal behavior: Compensation and prediction in development.
R.H. Woodson.
Crawling: An explanation in terms of developmental constraints.
M.F. Elias.

Oval Room (World Trade Center).
10:30 - 11:25 am

Project report: The influence of infant affective state on cogni-
tive processes. D. Stern, K. Mackain, & A. Goldfield.

Oval Room (World Trade Center).
11:30 am - 12:25 pm

Project report: Behavioral states and the central nervous system.
E.B. Thoman, C. Acebo, D.H. Davis, S.E. Graham, J.P. Scholz, & J.C.
Rowe.

15 U. of Connecticut, Storrs
24 New Sch. for Social Res., NYC
51 Rainbow Babies & Children's Hosp.
7 Emory U.
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38 U. of Calif., San Diego
3 U. of Colorado
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52 CMS, Marseille, FR
24 Children's Hosp., Natl. Med. Ctr.
24 Primate Ctr. TNO, Rijswijk, NL
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11 U. of Washington
31 U. of Wisconsin, Madison
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42 Albert Einstein Col. of Med., NYC
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U. of Lund, Sweden
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U. of Texas, Austin
State U. of New York, Binghamton
U. of Washington, Seattle

Friday, April 6

Research Displays:

River Suite. Social and Language Development. 8:30 am - 12:15 pm

East River Room. Socialization effects.

Effect of assessment results on teen mothers' perspectives of infant development. S.C. McDonough.

Child-rearing across the generations: Grandmothers, mothers, and toddlers. B.J. Myers.

Perceptions of mother-infant separations and non-maternal care: Social class differences. J. Bunge & E. Hock.

Relationship of psychological characteristics of pregnancy to postpartum adjustment and maternal perception of newborn. M.A. Bottari & F.J. McLaughlin.

Determinants of face to face and teaching interactions in adolescent mothers. L.V. LeVine & C. Garcia-Coll.

The effects of demonstration of the Brazelton Neonatal Assessment Scale on the father-infant relationship. J.A. Beal.

The role of grandparents in infancy. B.J. Tinsley & R.D. Parke.

New York Harbour Room. Preverbal communication.

Parental perceptions of infant vocal development. J. Wong & C. Miller.

The development of communication within infant social games. H.S. Ross & S.P. Lollis.

Parental communication strategies and the acquisition of perspective-taking. Y. Schutze.

Early social games and language acquisition. L. Camaioni & C. Laicardi.

Maternal speech and the development of infant babbling. C.B. MacLellan & C. Miller.

Maternal stimulation and infant vocalization: Behavioral cyclicalities and coherent dyadic interaction at 4 months. C. Miner & M. Bornstein.

Maternal speech to infants in the first year of life. J.C. Kruper & I.C. Uzgis.

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Friday, April 6

Research Displays: River Suite (continued)

Hudson River Room. Communication and language.
The signal value of infant smiling and brow knitting. H. Oster & C. Ise.
The development of mother-infant conversational styles and their relationship to infant-mother attachment. K. Grossmann.
A longitudinal study of infants' communication patterns with mothers and daycare caregivers. C. Harding, S. Kromelow, & M. Touris.
Vocal stimulation early in life and infant vocal responsiveness to mother vs stranger: A curvilinear relationship. K.V. Roe & A. Roe.
Fathers' and mothers' interactions with their one-year-olds: Analyses of behavioral frequencies and contingencies. M.B. Stevenson & M.A. Roach.
Infants vocalizations and parental reactions in the first months. H. Keller.
Patterns of vocalization and gaze in face-to-face play of mothers and infants. B. Beebe & S.D. Zelner.

Broadway Suite: Attachment.

8:30 am - 12:15 pm

St. Paul's Room: Infant attachment.
The interaction of behavioral systems in toddlerhood: Attachment and exploration in a modified strange situation paradigm. B.A. Pivnick & A.J.L. Baker.
Continuity of response to strange situations from three to twelve months. B.H. Langhorst.
Maternal and infant temperament as predictors of attachment security and strange situation behavior. R.A. Weber, M.J. Levitt, & M.C. Clark.

Bryan, Y.
Bryant, D.M.
Bull, D.
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U. of North Carolina, Chapel Hill
U. of Miami
U. of Geneva, Switz.
Ohio State U.
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U. of Wisconsin, Madison
Northwestern U. Med. Sch.
Northwestern U. Med. Sch.
Northwestern U. Med. Sch.
Tufts U.
CNRS INRA, Jouy-en-Josas, FR
U. of Southampton, UK
ICE, NICHU
U. of Rome, Italy
U. of Denver
George Washington U.
George Washington U.
U. of Padua, Italy
U. of Pittsburgh
U. of Calif., Los Angeles
CNR Inst. of Psychol., Rome, Italy
U. of Arkansas for Med. Sciences
U. of Texas, Austin
Meda, Pennsylvania
U. of Virginia
U. of Utrecht, NL
U. of Delaware
Children's Hosp. Med. Ctr., Boston
U. of Minnesota
U. of Brit. Columbia, Can.
U. of Houston
Austin Paey State U., Tenn.
Northwestern U. Med. Sch.
Children's Hosp., Natl. Med. Ctr.

Friday, April 6

Research Displays: Broadway Suite (continued)

St. Paul's Room: Infant attachment (continued)

Culture-boundedness of the A, B, or C classification by the strange situation procedure: A case of Japanese infants and mothers. K. Takahashi & K. Miyake.

Relationship of maternal behavior and anxiety associated with mother-infant separations. S.L. McBride & E. Hock.

Curiosity, fear, and the attachment paradigm: Theoretical considerations and empirical results. H.-G. Voss.

Emotion-attachment interrelationships in the strange situation: A structural modeling approach. J.P. Connell, R.A. Thompson, & P.F. Tero.

Barnum's Museum Room: Attachment, mastery and social development.

The affective contexts of early symbolic play. A. Slade.

Determinants and correlates of mastery motivation and attachment across the second year: A structural modeling approach. L.J. Bridges, W.S. Grolnick, A. Frodi, & J.P. Connell.

Cross-age predictability of a measure of infant mastery. E.J. Hincir.

Quality of attachment from infancy to early childhood: Security is stable, but behavior changes. J. Cassidy & M. Main.

Use of confirmatory factor analysis to examine relations among sensorimotor, social and communication skills in infancy. A.E.

Hogan, L. LaVoie, & J.M. Seibert.

Imitative interchanges during naturalistic mother-infant interactions. E.F. Masur.

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Friday, April 6

Research Displays: Broadway Suite (continued)

Canal Street Room: Attachment in risk infants.
Predicting quality of attachment at one year from neonatal characteristics. D.L. Holmes, N. Ruble, J. Kowalski, & B. Lauesen.
The behavioral implications of a prematurity stereotype: The effects of labeling on mother-infant interactions. M. Stern & K.A. Hildebrandt.
Effects of infant appearance and state patterns on adult perceptions. J.N. Reich, R. Meier, L. Klein, & J. Gyurke.
Attachment relationships between mothers and their neurologically impaired or developmentally delayed infants. J.R. Stahlacker.
Maternal behavior and attachment in low birthweight twins and singletons. S. Goldberg, M. Perrotta, & K. Minde.
Baby beautiful: The relationship between infant attractiveness and maternal behavior. J.H. Langlois & R.J. Casey.
Longitudinal follow-up of at-risk infants. B. Healy.
Park Suite: Auditory perception; language. 8:30 am - 12:15 pm

Battery Park Room: Auditory perception
Perceptual constancy of nonspeech stimuli. M. Rudman.
Pitch extraction and categorization by 7 month olds. M.G. Clark-son & R.K. Clifton.
Frequency discrimination of pure-tones in human infants. R.N. Aslin & J.M. Slinn.
Infants' discrimination of the correlates of linguistic stress. D. Bull & R.R. Eilers.
Infant auditory temporal pattern perception. B.A. Morrongiello.
The origins of musicality. L.A. Thorpe & A.J. Cohen.
Infants' perception of melodies: Change in a single tone. S.E. Treuh, L.A. Thorpe, & B.A. Morrongiello.

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Friday, April 6

Research Displays: Park Suite (continued)

City Hall Park Room: Normal infant language.

The relationship between nonverbal imitation and gestural communication in one year old infants. M. Heimann & K.E. Nelson.

Language styles and symbolic play. C.M. Shore & P.J. Bauer.

Vocal and gestural communication from the holophrastic to the diphrastic stage. V. Volterra & M.C. Caselli.

"I beg your pardon?": The preverbal negotiation of failed messages. R.M. Golinkoff, D.L. Sardo, & L. Yosua.

Mapping lexical space: Validating a new approach to comprehension. R.M. Golinkoff, K. Hirsh-Pasek, & K.M. Cauley.

Consonantal characteristics of babbling during the sensorimotor period. B. Glazewski & L. McCune-Nicolich.

An "expressive" infant's communication development. L.B. Adamson, M. Tomasello, & L.L. Benbenisty.

Bowling Green Room: Language development in risk children.

Language delay in 2-year-olds. L. Rescorla.

Representational ability, nonverbal communication skill, and early language development in autistic children. P. Mundy, M. Sigman, T. Sherman, & J. Ungerer.

The Waba experiment. R. Gaines, S. Braunwald, S. Slutzky, N. Carterette, & M. Platt.

Talking in strange situations: Normal and high risk toddlers' use of language in a laboratory playroom. S. Seidman & R. Allen.

The vocalizations of deaf infants. D.K. Oller & D. Bull.

Functional and representational play in normal and handicapped infants. R.M. Brownich.

Interactions between mothers and their mentally retarded infants and young children: Intervention vs non-intervention dyads. G.M. Kysela & K. Marfo.

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Sunday, April 6

Research Displays: River Suite (continued)

Bowling Green Room. Early prediction.
Predicting later cognitive development. L.A. Harber & D.C. Farran.

Infant tests as predictors of IQ and achievement at 6 years. L.S. Siegel.

Infant assessments as predictors of 3-year IQ. J.N. Reich, D.L. Holmes, F.L. Slaymaker, B. Laussen, & J. Gyurke.

Cognitive development of low-birthweight infants: Two year follow-up of an intervention. V.A. Kauh, B. Nurcombe, T.A. Achenbach, D.M. Teti, D.C. Howell, & P. Ruoff.

Failure of early intervention on the preterm infant to produce significant long-term effects. S.A. Leib, D.C. Benfield, & T.E. Webb.

Identifying high-risk infants: A practical application of the concept of cumulative stress. B.J. Breitmayer & C.T. Ramsey.

Effect of intervention with high risk infants. S. Cohen.

Merchants Exchange Room.

9:00 - 11:50 am

Audio-visual presentations: Prematurity and handicap.
9:10 - 9:50 am. Primary prevention of maladaptive parenting of premature infants. B.M. Ostfeld & R.H. Smith.

10:30 - 11:10 am. Capturing competence: Alternative assessments for handicapped infants. B.D. Goldman & N.M. Johnson-Martin.

11:10 - 11:50 am. The behavior of the premature infant. M. Hack and M. Klaus.

Nieuw Amsterdam West.

12:20 - 1:30 pm

General business meeting.

Friday, April 6
1:30 - 3:30 pm

Nieuw Amsterdam West.

Invited symposium: Critical periods during embryogenesis.
Chair: G. Turkewitz.

Participants:

Neurobiological aspects. M. Jacobson.
Sensory aspects. B.W. Rubel.

Biobehavioral aspects. G. Gottlieb.

4:00 - 4:55 pm

Nieuw Amsterdam West.

Invited presentation: The mother-infant relationship as a biobehavioral regulator: Evidence from animal model research.
Chair: M. Reite.

Speaker: M.A. Hofer.

Nieuw Amsterdam Center.

1:30 - 2:50 pm

Oral presentations: Cognitive development.

1:30 - 2:10 pm. Development of numerical concepts in infancy. M.S. Strauss & L.E. Kurtis.

2:10 - 2:50 pm. Piaget, the object concept, and the permanence of objects: A continuing search. G. Gratch & J.A. Shatz.

Discussion leader: L. McCune-Nicholich.

3:30 - 4:50 pm

Nieuw Amsterdam Center.

Oral presentations: Perceptual integration.

3:30 - 4:10 pm. Infants' sensitivity to pictorial depth information. A. Jonas & C.E. Granrud.

4:10 - 4:50 pm. The emergence of self-produced locomotion and its effect on perceptual, cognition, and affective development.

Discussion leader: R. Held.

B.I. Bertenthal.

Friday, April 6

Nieuw Amsterdam East.

1:30 - 3:15 pm

Symposium: The strange situation procedure: Insights from an international perspective.

Chair: A. Sagi.

Participants:

The usefulness of the strange-situation procedure in cross-cultural research. M.D.S. Ainsworth.

The strange situation in international theoretical perspective: The German experience. E.K. Beller.

The status of Ainsworth's strange situation in north and south German attachment research. K.E. Grossmann & D. Escher-Graub.

The strange situation in the Netherlands: Aspect of cross cultural validity. M.H. Van Ijzendoorn, P.M. Kroonenberg, F.A.

Goossens, J. Swaan, & L.W.C. Tavecchio.

Exploring the origins and implications of strange situation behavior through multinational research. M.E. Lamb.

The study of attachment in Japanese infants. K. Miyake.

The strange situation research in Israeli Kibbutzim: Some validity issues. A. Sagi.

Nieuw Amsterdam East.

3:30 - 4:50 pm

Oral presentations: Representation.

3:30 - 4:10 pm. Exploring the presence of early imitation during infancy. E. Abravanel & A.D. Sigafos.

4:10 - 4:50 pm. Infant's representation of events: Studies of imitation, cross-modal perception, and categorization. A.N. Meltzoff & P.K. Kuhl.

Discussion Leader: A.J. Caron.

Sunday, April 6

Research Displays:

Park Suite: Later intellectual attainment. 8:30 am - 12:15 pm

Battery Park Room: Disadvantaged development.

Predicting poverty children's IQ from mothers' social support network. M.R. Burchinal, D.M. Bryant, & J.J. Sparling.

Correlates of development in six-month-olds. P. Parks, L. Jenkins, E. Lenz, G. Jarrett, & M. Neal.

The pregnancy experience of disadvantaged women: The role of life events and social isolation upon peri- and postnatal outcomes. J. Brooks-Gunn, M. McCormick, & M. Heagarty.

Social support for mothers of infants: Providers, functions, and implications for maternal well-being. M.J. Levitt, R.A. Weber, & M.C. Clark.

Maternal stress and social support: Effects on maternal attitudes and mother-infant interaction during the first two years. K.A. Crnic & M.T. Greenberg.

Pre-birth parent characteristics and family development in the first two years of life. C.M. Heinicke.

Maternal risk status and outcome measures: A multidimensional study in Israel. E. Tirosh, A. Sagi, M. Jaffe, L. Findler, & J. Harel.

Sunday, April 6

Research Displays:

Broadway Suite: Early vision. 8:30 am - 12:15 pm

St. Paul's Room: Neonatal vision.

The development of light adaptation in human infants. J.L. Den-

neMiller.

The development of contrast constancy in human infants. B.R.

Stephens.

Horizontal, vertical and oblique eye movements in infants to sin-

gle and double step target displacements. S.L. Shea & R.N. As-

lin.

Development of temporal contrast sensitivity. E.B. Hartmann &

M.S. Banks.

Infants' acuity at twenty feet. E.H. Cornell.

Operant reinforcement and infants' performance in a preferential

looking acuity task. B.R. Stephens & M.S. Banks.

Canal Street Room. Sensory visual development.

Parameters of infant saccadic eye movements. D.H. Ashmead.

Oculomotor and visual functions in early infancy. A.A. Mitkin &

A.N. Yamschikov.

The use of habituation to study newborn color vision. R. Adams.

Color vision in the newborn. E.S. Kitchsch & D.S. Woodruff.

Wavelet development in the neonate: A preliminary study. E.S.

Kitchsch & J.B. Siegfried.

Neonatal discrimination and imitation of facial expression: A

failure to replicate. K.A. Kleiner & J.F. Ragan.

Attention getting and attention holding in neonates. S. Harowitz,

J.M. Gardner, & G. Turkewitz.

Friday, April 6
1:30 - 3:15 pm

Oval Room (World Trade Center).

Symposium: Cesarean childbirth and parent-infant interactions: Are
these replicable effects in diverse samples?

Chair: F.A. Pedersen.

Participants:

Vaginal vs. Cesarean delivery in a Swedish sample: Effects on

father- and mother-infant interaction at 3 and 8 months. C.-Ph.

Hwang.

Cesarean delivery in a British sample: Does it have an effect on

the subsequent mother-child relationship? J. Trowell.

Cesarean delivery in immigrant Mexican women: Mother-infant in-

teraction. S. Cohen.

Effects of mode of birth on middle-class parents in the U.S.A.:

Mother- and father-infant interactions at 3 and 12 months. R.

Pedersen, M. Zaslow, R. Cain Jr., B. Rabinovich, & J. Suwalsky.

Oval Room (World Trade Center).

3:30 - 4:50 pm

Oral presentations: Mother-child interaction.

3:30 - 4:10 pm. Social interaction and developmental competence

of preterm and full-term infants from birth to 24 months:

Predicting outcomes. K.A. Crnic & M.T. Greenberg.

4:10 - 4:50 pm. The plasticity of intellectual development: In-

sights from preventive intervention. C.T. Ramsey, K.O. Yeates, &

E.J. Short.

Discussion leader: A. Sameroff.

Friday, April 6

Research Displays:

River Suite: Temperament and affect.

1:30 - 4:45 pm

East River Room: Emotion and affect.

Acquiring social knowledge about emotions. L. Michalson.

Emotion in the infant voice. C.Z. Malatesta, J. Davis, & C. Culver.

Communicative functions of infant referencing. S.H. Wilde & M.K. Rothbart.

When mother's eyes are smiling: Bimodal perception of affective expressions. A.S. Walker-Andrews.

Infants' use of conflicting emotion signals. K.C. Barrett & J. Campos

Mothers' internal states labelling to toddlers: Effects of child development and situation differences. M. Beeghly.

A developmental perspective on toddlers' reactions to maternal anger. S.B. Crockenberg.

New York Harbour Room: Effects of temperament on development.

Possible influences of prenatal and birth-related variables on parents' perception of infant temperament. C.J. Mebert & M.F. Kalinowski.

Infant difficultness and interactional style. E.M. Miller.

The influence of infant temperament on mothers' and fathers' perceptions of adjustment difficulty and satisfaction with parenthood. K.K. Colbert.

Temperament and tempo of play in 8-month old infants. F. Weizmann, S. Wenckstern, & A.A. Leenaars.

Metabolic disorders and infant temperament. L.E. Kapuniai, D.H. Crowell, R.B. Boychuk, M.J. Light, & J.E. Hodgman.

Measuring inattention, impulsivity and hyperactivity during clinical investigations. H. Dieneske, J.A.R. Sanders-Woudstra, & G. de Jonge.

An age 4-year follow-up of infants and their families. G.S. Pettit.

Sunday, April 6

Research Displays: River Suite (continued)

Hudson River Room. Motion, texture, objects, & events.

The effects of 2- versus 3-dimensional stimuli on 6- and 12-week-old infants' preferences for novelty and familiarity. M.A. Hunter & R. Lampard.

Organization of visual pursuit in pre-term infants. H. Bloch, D. Mellier, & G. Fuenmajor.

The temporal course of infants' exploration. H.A. Ruff.

Infants' recognition of a face revealed through motion: Contribution of internal facial movements and head movements. M. Stucki & R. Kaufmann-Hayoz.

Kinetic contour information in infants form perception. R. Kaufmann-Hayoz & F. Kaufmann.

Gestalt relations and object perception in infancy. H. Schmidt & E.S. Spelke.

Accretion and deletion of texture as information for depth at an edge. M.E. Arterberry, M.L. Glicksman, & A.C. Sorknes.

Sunday, April 6

Research Displays:

River Suite. Perception and cognition. 8:30 am - 12:15 pm

East River Room.: Spatial location and movement.

A longitudinal study of the role of self-initiated movement in spatial knowledge. J.B. Benson.

The role of self-produced movements and visual tracking in infant spatial orientation. L.P. Acredolo, A. Adams, & S.W. Goodwyn.

Spatial orientation and wayfinding in unfamiliar environments. R.J. Haake, R.N. Smith, & H.L. Pick.

Does crawling experience affect infants' emerging spatial orientation abilities? J. McComas & J. Field.

Pointing at objects hidden in other rooms: Spatial inferences and the information guiding toddlers spatial behavior. E.A. Kid-

er & C.M. McCauley.

Toddlers' exploitation of cues to guide memory-based searching. J.S. DeLoache.

Infants' use of container movements as a cue for search. R.J. Haake & R.N. Smith.

New York Harbour Room. Form, space and movement.

Infants' encoding of kinetic displays varying in figural coherence. B.I. Bertenthal & D.R. Proffitt.

Rotations and translations in infancy. B. Landau.

Infant coding of spatial orientation as a function of different transformations. S.J. Kramer.

The infant and the distant social object. S. Dziurawiec.

Objective spatial coding in 8-month-old infants. M.L. Glicksman.

Development of interhemispheric asymmetry in face processing. S. de Schonen & M. Diaz.

Oral activity by young infants: Development of two differentiated patterns of response. Ph. Kochat.

Research Displays: River Suite (continued)

Friday, April 6

Hudson River Room: Temperament ratings by parents.

Ratings of parent temperament and child temperament: Infant to toddler to preschooler. A. Allert, T.J. Koller, & A.H. Schoiom.

Maternal response on the Toddler Temperament Questionnaire (TTQ) and 12-month-olds' behavior in uncertain and potentially scary situations. L.S. Rust.

Temperament ratings in infancy: The saliency of perceived difficulty. J. Worobey.

Parent perceptions of easy versus difficult Dutch children. G.A. Kohnstamm.

Familial temperament ratings of risk/nonrisk infants. C.J.R. Simons, K.A. McCluskey, & M.K. Mullett.

From couple to family: What happens when baby intrudes? M.A. Easterbrooks & R.N. Emde.

Park Suite: Social interactions.

1:30 - 4:45 pm

Battery Park Room: Mother-infant interaction.

Stability of neonatal visual behaviors in social interaction. P.A. Self, M.S. Shafae, & C.A. Noble.

Dimensionality of the neonatal mother-infant relationship. L. Walker, H. Grain, E. Emmer, & E. Thompson.

The relationship between neonatal behavior and mother-neonate interaction. G.A. Richardson & K.A. McCluskey.

Elicitation of neonatal behaviors. C.A. Noble, P.A. Self, & M.S. Shafae.

Newborn and caregiver constraints in organizing interactions. P.F. Chapelle & L.W. Sander.

Short-range sequential constraint in mother-vocal - infant-gaze dialogue. S.D. Zelner, S. Feldstein, & J. Jaffe.

Friday, April 6

Research Displays: Park Suite (continued)

Bowling Green Room: Mother-toddler interaction.

Origins of mother-toddler problem solving interactions. K. Frankel.

Contacting a visitor in home settings: Strategies of entry into social contact among 12-14 month olds. P.E. Hill & J. Valsiner.

Mothers as mediators of infant exploration: A descriptive, correlational analysis. T.G. Power & M.L. Chapieski.

Mother-infant attachment at 12 months and its relation to 3-year olds' readiness to build up a new relationship. P. Lutkenhaus.

Sibling-created experiences and infant intellectual development: A longitudinal study. D.M. Teti, E.D. Gibbs, & L.A. Bond.

Development of infants' relationships during the first two years of life: The North German Longitudinal Study. K. Grossmann.

Mother-toddler interaction and symbolic development. L. Adler & L. McCune-Nicolich.

Broadway Suite: Maternal risk effects.

1:30 - 4:45 pm

St. Paul's Room: Maternal behavioral risk.

Parent-infant relationships for general and specific cognitive abilities. L.A. Thompson & R. Plomin.

Infants of mothers with borderline and schizotypal personality disorders: Developmental, temperamental, and familial characteristics. E.J. D'Angelo.

Resilience among children of psychiatrically ill mothers: Enabling factors in the mother-child relationship. F.M. Stott, J.S. Musick, R. Clark, & B.J. Cohler.

Compulsive compliance: The development of a cognitive defense strategy in infancy. P.M. Crittenden & D.L. DiLalla.

Human specific route of development in infancy and early childhood. A. Niemczynski.

Sunday, April 6

10:30 am - 12:15 pm

Nieuw Amsterdam East.

Symposium: On sleep.

Chair: S. Landesman-Dwyer.

Participants:

First year sleep-wake characteristics and later developmental status. K.E. Barnard, M. Hammond, C. Booth, & N. Encke.

Infant sleep states, EEG patterns, caregiving, and 5 year IQ's of preterm children. L. Beckwith & A.H. Parmelee.

Individual differences in the ontogeny of sleep and wake cycles. S. Landesman-Dwyer, G.P. Sackett, & A. Meltzoff.

Parent-infant co-sleeping and sleep management approaches. B. Lozoff, A.W. Wolf, & N.S. Davis.

Oval Room (World Trade Center).

8:30 - 10:30 am

Oral presentations: Infant speech perception.

8:30 - 9:10 am. Infant speech perception categories and their relation to phonological development. P.W. Jusczyk.

9:10 - 9:50 am. Infants' perception of complex auditory patterns. S.E. Trehub.

9:50 - 10:30 am. What do infants perceive in speech? C.T. Best.
Discussion Leader: P.K. Kuhl.

Oval Room (World Trade Center).

10:30 - 11:50 am

Oral presentations: Newborn perception.

10:30 - 11:10 am. Organization of visual perception at birth. A.M. Slater.

11:10 - 11:50 am. Processing of relational information by newborns. S.G. Antell, A.J. Caron, & R.S. Myers.

Discussion leader: M.M. Haith.

Sunday, April 6
8:30 - 10:15 am
Nieuw Amsterdam Center.

Symposium: Mother-infant interaction in pediatric risk groups.

Chair: P.L. IJm.

Participants:

Lag sequential analysis: Some uses and abuses. G.F. Sackett.

Anemic and non-anemic infants and their mothers at play. N.K.

Klein & K. Prubucki.

Interactions between fetal alcohol exposed infants and their

mothers. P.L. IJm, C.B. Knhart, & A.R. Livingston.

Social competence and attachment behavior in failure-to-thrive

infants. M.A. Finlon & D. Drotar.

Nieuw Amsterdam Center.

10:30 - 11:15 am

Invited presentation: Analytic techniques for studying socialization.

Chair: P.M. Vietze.

Speaker: J. Gottman.

Nieuw Amsterdam East.

8:30 - 10:15 am

Symposium: Early information processing and later cognitive func-

tioning in delayed and normal infants.

Chair: P.R. Zelazo & J. Brooks-Gunn.

Participants:

Infants' attention to visual novelty and the prediction of later

intellectual deficit. J.R. Fagan.

Visual attention in handicapped infants: The effects of chono-

logical age, mental age, and disability. J. Brooks-Gunn.

Concept formation in motorically impaired infants. S. McDonough.

The identification of intact and delayed information processing:

An experimental approach. P.R. Zelazo & R.B. Kearsley.

Identification of children at risk using information processing

methods. P.M. Vietze.

Research Displays: Broadway Suite (continued)

Friday, April 6

Barnum's Museum Room: Mother and family risks.

Effects of prematurity, illness and maternal occupation on

mother-infant interaction at twelve months of age. L. Brandt.

The parent-child interaction scale: A new clinical instrument.

C. Kasari & D.C. Farran.

Mother-infant interaction and the development of behavior prob-

lems in childhood. C. Feiring.

Face to face interactions of high-risk mother-infant pairs. J.F.

Cohn, D. Connell, & K. Lyons-Ruth.

Mother-child dyads at risk: Development of a scale for early

identification of disturbances and deficits in maternal and child

affect and behavior. R. Clark, J.S. Musick, F.M. Stott, K.

Klehr, & B.J. Cohler.

The impact of birth order and the effects of prematurity and ill-

ness on maternal-infant interaction. M. Bendersky.

Holding and face-to-face exchanges between adult and infant in

post-partum decompensated family. E. Rivas, D. Martin, J.

Guillemin, & B. Cornut-Zimmer.

Canal Street Room: Parental problems with risk infants.

Interrupted infantile apnea: Neurobehavioral, temperament and

parenting stress variables. D. Bendall & J.L. Gilbertson.

Initial validation of an attribution-control analysis of parental

copling with newborn intensive care. G. Affleck, H. Tenen, & K.

Gershman.

Maternal perception of very low birth weight and average weight

infants during infancy. A. Silcock.

Parental needs in a neonatal intensive care follow-up clinic. V.

Foran, M. Sherman, & E.G. Lipper.

The special anticipatory guidance need of developmentally dis-

abled infants. J.A. Blackman & L.S. Cobb.

Parents as evaluators of their at-risk infants. D. Bricker.

Nieuw Amsterdam Ballroom.
Friday, April 6
5:15 - 6:15 pm
Keynote address: Ontogeny of states and approach-withdrawal
behavior in infants.
Chair: T.B. Brazelton.

Speaker: A.H. Parmelee.

Nieuw Amsterdam Ballroom Foyer.
6:15 - 7:15 pm
No-host Cocktail hour.

ICIS Banquet: The Silver Palace, Chinatown.
7:15 - 11:00 pm
(reservations required)

Nieuw Amsterdam West.
Sunday, April 6
8:30 - 10:15 am
Symposium: Developmental perspectives on infant temperament.
Chair: M.K. Rothbart
Participants:
- Temperament and the development of behavioral inhibition. M.K. Rothbart.
Stability and transformation of toddler temperament across settings and ages. A.P. Matheny & R.S. Wilson.
Individual presentation: Difficult temperament and development. J.E. Bates & K. Bayles.
- The objective measurement of temperament: Lab-tab and video-tab. H.H. Goldsmith & L. Rieser-Danner.

Nieuw Amsterdam West.
10:30 am - 12:15 pm
Symposium: Difficult temperament: Toward an integration of parental, clinical and research perspectives.
Chair: W.B. Cawey.
Participants:
Functional significance of difficult temperament at succeeding developmental periods. S. Chess & A. Thomas.
Understanding the link between difficult temperament and behavior problems: Toward the identification of sub-types of difficult-ness. J.E. Bates, E.M. Miller, & K. Bayles.
Toward an integrated 'Systems Theory' of difficult infant temperament. I. St. James-Roberts & D. Wolke.
Multi-method measurement of the difficult infant 'system' in the first 6 weeks of life. D. Wolke & I. St. James-Roberts.

Saturday, April 7

Merchants Exchange Room: 1:30 - 4:10 pm

Audio-visual presentation: Environment and infant.
1:30 - 2:10 pm. Working with special needs infants and parents:
The physical environment. D.A. Corsini & L. Rho.
3:30 - 4:10 pm. Person-object distinctions and communication.
M. Legenstein & A. Pomerleau, *E.C. - Maturit*

Nieuw Amsterdam Ballroom.

5:15 - 6:15 pm

Invited address: The concept of object.
Chair: G. Gratch.

Speaker: M. Minsky.

Nieuw Amsterdam Ballroom Foyer.

6:15 - 7:15 pm

No-host Cocktail Party.

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Nieuw Amsterdam West. 9:00 - 9:55 am
Saturday, April 7

Project report: Behavioral inhibition to the unfamiliar. J. Kagan,
J.S. Reznick, & N. Snidman.

Nieuw Amsterdam West. 11:00 - 11:55 am

Invited presentation: Stranger distress in low birth weight
infants.
Chair: A.S. Honig.

Speaker: S.K. Escalona.

Nieuw Amsterdam Center. 9:00 - 9:55 am

Invited presentation: Understanding visual systems in infants.
Chair: G. Bronson.

Speaker: M.S. Banks.

Nieuw Amsterdam Center. 10:00 am - 12:00 noon

Oral presentations: Perceptual development.
10:00 - 10:40 am. The development of hyperacute visual resolu-
tion in infants. J. Gwiazda, S. Shimojo, E. Birch, & R. Held.
10:40 - 11:20 am. The effects of visual deprivation during in-
fancy on perceptual development. T.L. Lewis, D. Maurer, & H.P.
Brent.
11:20 am - 12:00 noon. Toward a theory of auditory development.
B.A. Schneider.
Discussion leader: R.N. Aslin.

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Nieuw Amsterdam East.

Saturday, April 7
9:00 - 9:55 am

Project report: Assessment methodology for studying early intervention programs: Research and clinical application. M. Leifer, S. Smith, & D. Spiker.

Leifer, M. ~~Smith, S.~~ ~~Spiker, D.~~ Lernerthal - Ecker

Nieuw Amsterdam East.

10:00 - 11:45 am

Symposium: Preventive intervention approaches in infancy.

Chair: J.D. Osofsky.

Participants:

Is parenting taught or acquired? K.E. Barnard, S. Mitchell, C. Booth, D. Magyary, & G. Sumner.

The UCLA early intervention project. L. Beckwith, E. Baxter, K. Weiler.

Infants and the multi-risk family. S.I. Greenspan.

Primary prevention with adolescent mothers. J.D. Osofsky, L.M. Ware, L. Bradford, & A.M. Culp.

Saturday, April 7

Research Displays: Park Suite (continued)

City Hall Park Room. Neurologically at risk infants.

Two year follow up of intracranial hemorrhage in <1200 gm infants using the Bayley Scales versus the Milani-Comparetti developmental examination. M.N. Nelson, M.E. Bozynski, K.J. O'Donnell, D. Ganaze, C. Rosati-Skertich, P. Naughton, & W. Meier.

Intraventricular hemorrhage (IVH): Neurodevelopmental outcome in the second year. C.L. Halsey & C.L. Anderson.

The marasmic infant: A twenty-year developmental study. M.B. Stoch, P.M. Smythe, A.D. Moodie, & D. Bradshaw.

CT brain scans: Part of a twenty-year developmental study of marasmic infants. L.C. Handler, M.B. Stoch, & P.M. Smythe.

Early neurological predictors of one-year outcome in birth asphyxiated infants. E.G. Lipper, T. Voorhies, G. Ross, P.A.M. Auld, & R. Vanucci.

Differential cognitive and behavioral outcomes associated with early medical complications in premature infants. S. Landry, C. Zarling, L. Chapieski, & J. Fletcher.

Bowling Green Room: Mother-infant interaction and at-risk infants.

The impact of delayed development in premature infants on mother-infant interaction: A prospective investigation. K. Minde & M. Perrotta.

Early interactions between infants with cranio-facial anomalies and their mothers. T. Field & N. Vega-Lahr.

Mother-infant interaction in infants with excema: A comparative study. C. Gagnon & C.R. Solomon.

Behavior patterns of sick and healthy preterm and full term mother-infant dyads. M.E. Barrera, B. Bronte, & D. Vella.

A descriptive study of three preterm infant groups and their caregivers at 5 1/2 months. E. Krafchuk & S. Winn.

A comparison of pre-term and full-term infants: Implications for mother-infant interaction. S.F. Schwartz, F.D. Horowitz, & D.W. Mitchell.

Saturday, April 7

Research Displays:

Park Suite. Learning; Risk effects.

1:30 - 4:45 pm

Battery Park Room: Contingencies, expectancies and information.

~~Infant event-related potentials (ERP) to emitted stimuli. P.~~

~~Salapatek and L. Reseman.~~

Infants' recognition of briefly presented faces as indexed by the late positive component (LPC) of the event-related potential.

C.A. Nelson & P. Salapatek.

Conditioning 2- to 5-month-old infants by means of myoelectrical-ly controlled reinforcement. P.M. McDonnell & D.M. Stack.

Four-month-old infants can perceive and remember color-form com-pounds. E.W. Bushnell & B.J. Roder.

Perfect contingency depresses learning in 4-month-olds. J.S. Watson.

The emotional concomitants of contingent stimulation in early in-fancy. M.W. Sullivan.

✓ Preliminary results of an observer-based method for infant test-ing. L.W. Olsho.

Saturday, April 7

9:00 - 9:55 am

Invited presentation: Infant talk before words.

Chair: E. Bates.

Speaker: C.A. Ferguson.

Oval Room (World Trade Center).

10:00 - 11:45 am

Symposium: The use of physiological measures in early attachment/separation studies.

Chair: T. Field.

Participants:

Transactional relationships between heart rate variability and function during the first year. N. Fox.

Physiological studies of masques as a function of separation ex-perience. W. Donovan.

Multi-dimensional sources of physiological information reflecting the attachment/separation experience. M. Reite.

Observations of sleep and play of infants before, during and after separation from social experience. T. Field.

Saturday, April 7

Research Displays:

River Suite: Cognition.

8:30 am - 12:15 pm

East River Room: Visual perception.

Infants' expectation and anticipation of future visual events.
M.M. Haith, C. Hazan, & G.S. Goodman.

The development of intention in infancy. D. Frye.

Psychophysiology in visual recognition memory. S.A. Linemeyer & S.W. Porges.

Postural determinants of visually anticipatory behavior in infants. D. Mellier & F. Jouen.

Postural dependency of geographical orientation in five month old infants. F. Jouen.

Individual differences in habituation performance: Implications for predicting recovery behavior. D.W. Mitchell & L.C. Steiner.

Infant sensitivity to line information for the spatial structure of objects. A. Yonas, K.A. Benson, I. Smith, & E. Opland.

New York Harbour Room: Intra- and inter-modal interactions.

Intermanual transfer of tactile discrimination. G.F. Michel, M.R. Ovrut, & D. Harkins.

Cross-modal transfer of form in five-month-old infants. A. Streri, M.G. Pecheux, & E. Wupillot.

Bimodal perception of rate in 4-month-old infants. D.J. Lewkowicz.

Infants' auditory-visual perception of distance. A.S. Walker-Andrews & E. Lennon.

Perceptual learning of intermodal relations in infancy. L.E. Bahrick.

What visual-tactile discrepancies do infants detect, and why? E.W. Bushnell, N. Weinberger, & M. Polan.

Cerebral lateralization of tactual processing in very young children. S.A. Rose.

Saturday, April 7

Research Displays: Broadway Suite (continued)

Barnum's Museum Room: Stress studies and biochemistry.

Deep sleep and levels of plasma cortisol during recovery from routine circumcision in human newborns. M.R. Gunnar, S. Malone, & R.O. Fisch.

Stress response and coping mechanisms in very young Rhesus monkeys. V.M. Burks, J.D. Higley, & I. Wagman.

The effects of stress on sleep in the newborn. F.L. Slaymaker & D. Kalogjera.

The effects of physical restraint on the behavior and adrenocortical activity of the human newborn. S. Malone, M.R. Gunnar, & R.O. Fisch.

Developmental data as predictors of depression in infant Rhesus monkeys. M.S. Becker, S.J. Suomi, L. Marra, J.D. Higley, & N. Brogan.

Social separations involving infant Rhesus monkeys with different rearing histories. J.S. Lande, G. Hirsch, & J.M. Scanlan.

Canal Street Room: Perinatal influences.

Behavioral effects of obstetrical medication on the newborn. G.A. Brumitt & J.K. Dowler.

Demography of early trimester exposure in parturients. A.R. Hollenbeck, J.W. Scanlon, R.F. Smith, J.D. Haddad, E.S. Edens, & D.Y. Ward.

Biochemical and psychological antecedents of newborn performance on the Neonatal Behavioral Assessment Scale. N. Molitor, L. Joffe, P. Barglow, R. Benveniste, & B. Vaughn.

Newborn infants of diabetics: A continuum of metabolic casualties. R. Hatcher, P. Barglow, & J. Burns.

Alternative measures of maternal smoking and caffeine as predictors of neonatal outcome. J.K. Dowler & S.W. Jacobson.

Saturday, April 7

Research Displays:

Broadway Suite: State, stress and drugs. 1:30 - 4:45 pm

St. Paul's Room: State and physiology.

Effects of jaundice, phototherapy and different ways of covering the eyes on neonatal behavior. R. Paludetto, G. Mansi, P. Rinaldi, & M. Andolfi.

Activity, cardiac and respiratory responses of blindfolded preterm infants in NICU. Y. Shiroiwa & J. Ogawa.

Occurrence and rhythmicity of infant states and environmental events. K.R. Lawson & G. Turkewitz.

An empirical comparison of two infant state scales. D.M. Goff.

The rhythms and sounds of soothing: Maternal vestibular, tactile and auditory stimulation and infant state. A. Fernald, N. Ker-
manschachi, & D. Lees.

Sleep organization in preterm: The effect of bright nursery illumination. P. Glas & A.M. Sostek.

Saturday, April 7

Research Displays: River Suite (continued)

Hudson River Room: Categorization; Time and space.

Category segregation by 10-month-old infants. B.A. Younger.

Infant perception of proximity relations. L.B. Cohen & P.J. Ben-
net.

Prototypicality of input and categorization of natural stimuli in
6- and 9-month-old infants. B.D. Garber & K.E. Nelson.

Infants' processing of category variability. P. Carter.

Relative numerosity judgments by infants. L.E. Curtis.

Infant perception of rhythmic form. K.J. Washburn & L.B. Cohen.

Development of categorization of rhythmic patterns in infancy.
K.J. Washburn.

Park Suite: Feeding behavior.

8:30 am - 12:15 pm

Battery Park Room: Influences on feeding.

Short mother-infant separation influences the duration of
breastfeeding. G. Elander & T. Lindberg.

Competence of the human baby in food uptake. M. Morath.

Introducing solid foods: Strategies and response. N. Papaioun-
nou & C. Crook.

A developmental approach to feeding disturbances in infants and
young children. I. Chatoor, S. Schaefer, L. Dickson, & J. Egan.

Behavioral contingencies during feeding of 8-month-old low birth
weight infants. M.B. Stevenson, M.A. Roach, & J.N. Ver Hoeve.

Nursing and night waking in the first two years. M.R. Elias.

Tracheostomy in infancy: Patient characteristics and developmen-
tal outcome. L. Singer, R. Wood, & S. Lambert.

Saturday, April 7

Research Displays: Park Suite (continued)

Bowling Green Room: Newborn feeding.

Nutritive sucking patterns in infants at risk for SIDS. S.L. Murray & R.J. Fink.

Successful lactation in mothers of preterm infants. M.A. Trause, J.K. Hilliard, V.R. Malek, & L.I. Kramer.

Feeding interactions in preterm neonates. G. Alfasi, F. Schwartz, S. Brake, W. Fifer, & A.R. Fleischman.

Head orientation and sucking response by newborn infants. A. Bullinger & Ph. Rochat.

Perinatal practices among the Efe' (Pygmies) and Walese of Zaire. G.A. Morelli, S. Winn, N. Peacock, & D. Zwahlen.

Broadway Suite: Down's; Drugs; Crying.

8:30 am - 12:15 pm

St. Paul's Room: Down's syndrome.

The relationship of smiling, sociability, and motor status to cognitive development in Down Syndrome infants: Implications for assessment. S. Spieker & R.R. Fewell.

The discrimination of rapid spectral speech cues by Down Syndrome infants. R.E. Eilers & D.K. Oller.

Affective and cognitive development in Down's Syndrome and Cerebral Palsied infants. M.E. Barrera, J. Yip-Chuck, L. Marshall, C. Trossman, & A. Adelstein.

Social reinforcement of vocalization rate in Down's Syndrome and normally-developing infants. C.L. Poulson.

Structure and style of free play behavior in Down Syndrome and nonhandicapped children. M. Beeghly & B. Weiss.

Language learning and motivation in Down's Syndrome toddlers. L.F. Meyers.

Preverbal communicative behavior in Down Syndrome infants. M. Fischer.

Saturday, April 7

Research Displays: River Suite (continued)

New York Harbour Room: Heart rate and oxygen uptake. (continued)

Handling, heart rate and health in preterm infants. P. Gorski, C. Leonard, J. Martin, D. Sweet, S. Sehring, P. High, J. Green, K. O'Hara, & R. Piecuch.

Interface of behavioral and physiological functioning: A new method, research findings, and implications for infant assessment. B.M. Lester, J. Hoffman, C.F.Z. Boukydis, M. Censullo, R. McKee, & T.B. Brazelton.

Hudson River Room: Newborn behavioral and physiological indices.

The very low birthweight (VLEW) infant validity generalizability of outcome prediction. P.A. Steichen-Asch, J.J. Steichen, & G.C. Gleser.

Are preterm assessments useful? A comparative analysis of the validity of several approaches. E.Z. Tronick, K.B. Scanlon, & J.W. Scanlon.

Perceptual-cognitive responses, neurologic maturation, and cognition during the first year of life. K.M. Gerrity.

Predicting cognitive development from patterns of visual attention: Effects of postnatal illness and prematurity. L. Owen.

Predicting 3-year IQ scores from patterns of change in newborn behaviour. J.K. Nugent, S. Geene, & T.B. Brazelton.

Auditory evoked response asymmetries in premature infants. D.W. Shucard, D.G. Thomas, & J.L. Shucard.

Saturday, April 7

Research Displays:

River Suite: Physiology and Neurophysiology. 1:30 - 4:45 pm

East River Room: BAK and fetal responsibility.

Developmental adaptation and rate effects on auditory evoked brainstem responses. R.E. Lasky.

Influence of perinatal risk on brainstem auditory evoked potentials of human neonates. D. Dillon & E. Emory.

Detection of auditory system dysfunction in very low birth weight infants. B. Cone-Wesson, D. Kurtzberg, & H.C. Vaughan.

Predictive validity of newborn auditory brainstem evoked responses (ABRS). A.D. Murray, M. Gorza, W. Borkowski, M. Grush, D. Worthington, & P. Brookhouser.

Fetal alertness and reactivity to sound stimulation. J.-P. Lecanuet, C. Granier-Deferre, H. Cohen, M.-C. Busnel, & C. Bureau.

The relationship between fetal movements and neonatal functioning. R. Nowik & I. Flehming.

Fetal response decrement: True habituation? L.S. Madison, J.C. Anderson, R.M. Nelson, S.A. Aduabo, J. Erickson, & L. Kuss.

New York Harbour Room: Heart rate and oxygen uptake.

Newborns prefer intrauterine heartbeat sounds to male voice. R.K. Farneton & A.J. Decasper.

Newborn cardiac indices of processing transient vs steady-state acoustic stimuli. J.N. Ver Hoeve.

Transcutaneous oxygen tension during nonnutritive sucking in preterm infants. R. Paludetto, S.S. Robertson, M. Hack, C. Shiwauri, & R.J. Martin.

Spectral analysis of heart rate variability applied to neonatal assessment. J.M. Dowd, P.J. Ebin, B.Z. Karmel, E.G. Brown, R.A. Zappulla, & Z.Z. Wang.

Research Displays: Broadway Suite (continued)

Saturday, April 7

Barnum's Museum Room: Drugs; Alcohol and methadone.

Patterns of visual preferences in infants of drug dependent women. S. Hans and K. Reel.

Post-neonatal motoric signs in infants exposed in utero to methadone. S. Hans & R.J. Jeremy.

Alcohol use in elderly primips: Relation to infant cognition and growth. M.J. O'Connor, M. Sigman, & N. Brill.

FAS anomalies: Association with neonatal behavioral assessment. C.B. Ernhart, P.L. Linn, A.W. Wolf, R.J. Sokol, & M. Harrison.

The effects of maternal narcotic vs nonnarcotic addiction on neonatal neurobehavior and infant development. I.J. Chasnoff, W.J. Burns, & K. Burns.

The developmental course of the Moro reflex in narcotic-addicted infants. I.J. Chasnoff & W.J. Burns.

Canal Street Room: Crying.

Effects of experimentally manipulated attributions of infant cries on maternal learned helplessness. W.L. Donovan & L.A. Leavitt.

Adults' perception of the cries of high-complications and low-complications infants. Y. Bryan, N. Taylor, & P. Seragimian.

Perceptions of pain and hunger cries: A synchrony of arousal. P.S. Zeskind, M.L. Maito, J. Sale, & J. Simpson.

Infant pain cries: Characteristics and discriminability. R. Porter, R. Marshall, & R. Miller.

Transitional newborn infants in a hospital nursery: Time and behavior between first oral cue and first sustained cry. N.E. Gill, M.A. White, & G.C. Anderson.

Mothers' reports of infant crying and soothing. E.W. Ames, S. Gavel, S. Khazaei, & T. Farrell.

Saturday, April 7

Merchants Exchange Room:

9:00 am - noon

Audio-visual presentations: Attachment and bonding.

9:00 - 9:40 am. Biological signals in mother-child interactions.
M. Morath.

10:00 - 10:40 am. Bonding the cornerstone. J.B. Bernstein.

10:40 - 11:20 am. Videotapes of mothers and fathers interacting
with their infants. E. Landerholm & N. Nelson.

11:20 - noon. Journey and attachment. N. Shosenberg & L. Walker.

Informal group discussions:

12:15 - 1:15 pm

Nieuw Amsterdam West:

Group Leaders: R. McCall & E. Crow.

Topic: Communicating effectively with parents and the public.

Nieuw Amsterdam Center:

Group Leaders: G. Bronson & R.N. Aslin.

Topic: Eye monitoring methods: Technical issues.

Nieuw Amsterdam East:

Group Leaders: M.W. Yogman, R. Parke, J. Pleck, & R. Atkins.

Topic: The role of the father in infant development.

Saturday, April 7

Oval Room (World Trade Center).

3:30 - 4:50 pm

Oral presentations: Laterality and handedness.

3:30 - 4:10 pm. Directional eye gaze is an index of hemispheric
specialization for speech and music. K. MacKain, M. Studdert-
Kennedy, R. Janus, & M. Richards.

Discussion Leader: L. Harris.

4:10 - 4:50 pm. Mechanisms underlying discontinuities in the
development of lateral preferences. J. Liederman.

Discussion Leader: D. Ramsey.

Saturday, April 7

3:30 - 4:50 pm

Oral presentations: Fetal and neonatal activity. (continued)

4:10 - 4:50 pm. Cyclic motility in the fetus and neonate: Investigation of an internal clock. S.S. Robertson.
Discussion leader: E. Thelen.

Oval Room (World Trade Center).
1:30 - 2:50 pm

Oral presentations: Emotional development.

Hemispheric asymmetry and the development of emotion. N.A. Fox & R.J. Davidson.
Do infants perceive emotional expressions in static faces? R.R. Caron & R.S. Myers.
Discussion leader: J. Campos.

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Nieuw Amsterdam West.

Saturday, April 7
1:30 - 3:15 pm

Symposium: The investigator-subject relationship in infancy research.

Chair: R.N. Emde.

Participants:

The research call. S. Goldberg.

Issues in pediatric and cross-cultural settings. B. Lozoff.
"Clinical Skills" for basic research. J. Osofsky.

Issues in longitudinal research. L.A. Sroufe.
Therapeutic action in basic research. D. Stern.

Nieuw Amsterdam West.

3:30 - 4:25 pm

Invited presentation: Objective and subjective aspects of mother-child interaction.
Chair: D. Stern.

Speaker: B. Cramer.

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Saturday, April 7

Nieuw Amsterdam Center.

1:30 - 3:15 pm

Symposium: Memory development and the development of "memory talk".

Chair: R. Fivush.

Participants:

Early past and future talk in a social interactive context. S. Engel, A. Kyratzis, & J. Lucariello.

Remember when? Mothers and children talk about the past. M. DeForest & R. Fivush.

Memory of everyday life in infancy and early childhood. K. Nelson.

Effects of interactive puzzle-solving on young children's memory. R. Eder, C. Todd, C. Parks, & M. Perlmutter.

Nieuw Amsterdam Center.

3:30 - 4:50 pm

Oral presentations: Complex perception.

3:30 - 4:10 pm. A multifactor model of the determinants of infant exploratory behavior. M.A. Hunter & E.W. Ames.

Discussion Leader: S.A. Rose.

4:10 - 4:50 pm. Determinants of infantile amnesia. C. Rovee-Collier.

Discussion Leader: H. Kaye.

Saturday, April 7

1:30 - 3:15 pm

Nieuw Amsterdam East.

Symposium: Developmental vulnerability of infants born at severely high risk.

Chair: S.J. Meisels.

Participants:

The socioemotional responses of down syndrome and normal infants.

M. Lewis.

Attentional processes in the handicapped infant. R.A. Thompson.

Patterns of attachment among preterm infants of differing biological risk. S.J. Meisels, J.W. Plunkett, G.S. Stiefel, P.L. Pasick, & D.W. Roloff.

Nieuw Amsterdam East.

3:30 - 4:50 pm

Oral presentations: Fetal and neonatal activity.

3:30 - 4:10 pm. Crying in newborn infants: Physiology and developmental implications. G.C. Anderson.

Discussion Leader: P.S. Zeskind.