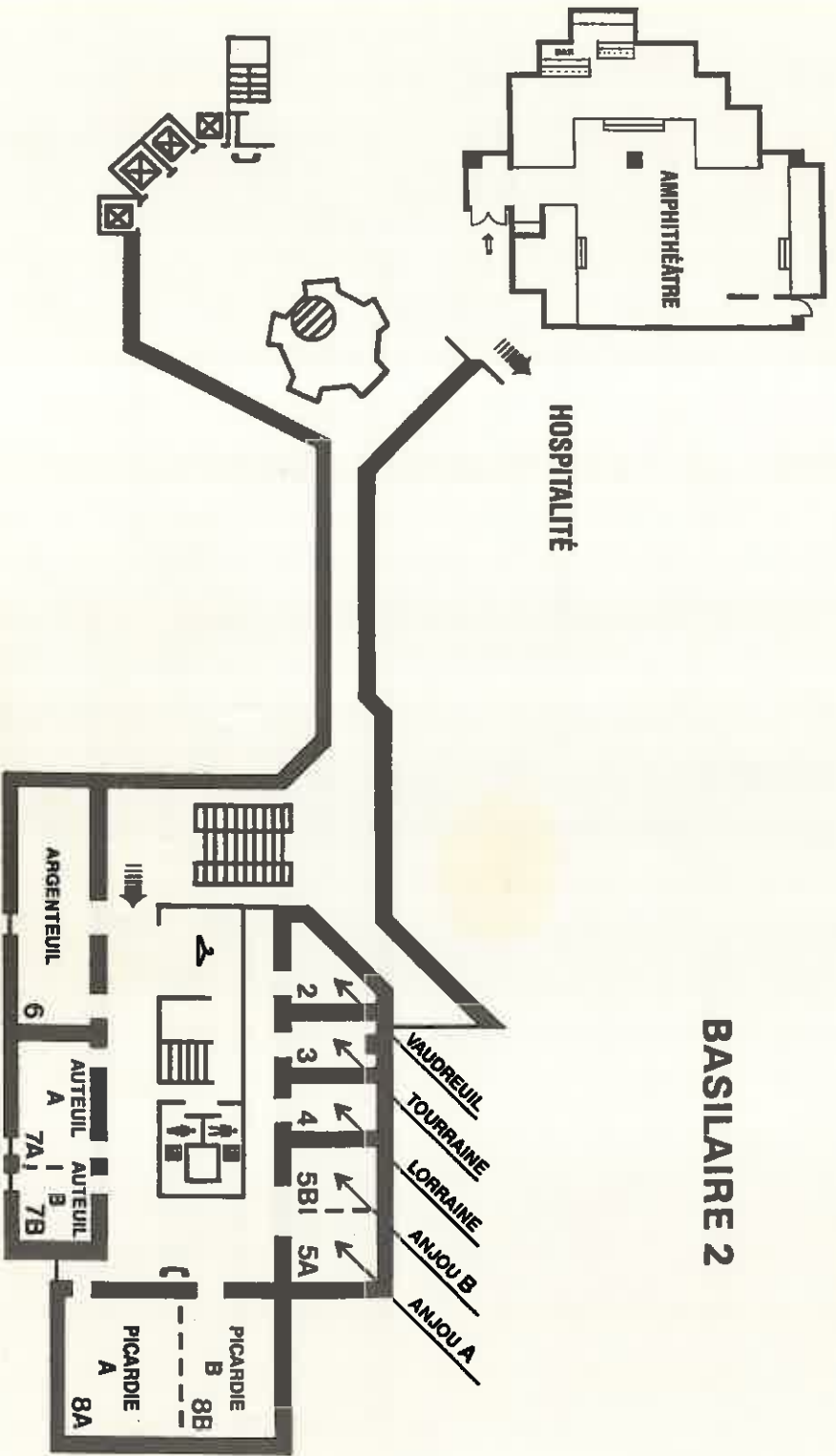


**7th International
Conference
on Infant Studies
(ICIS)**



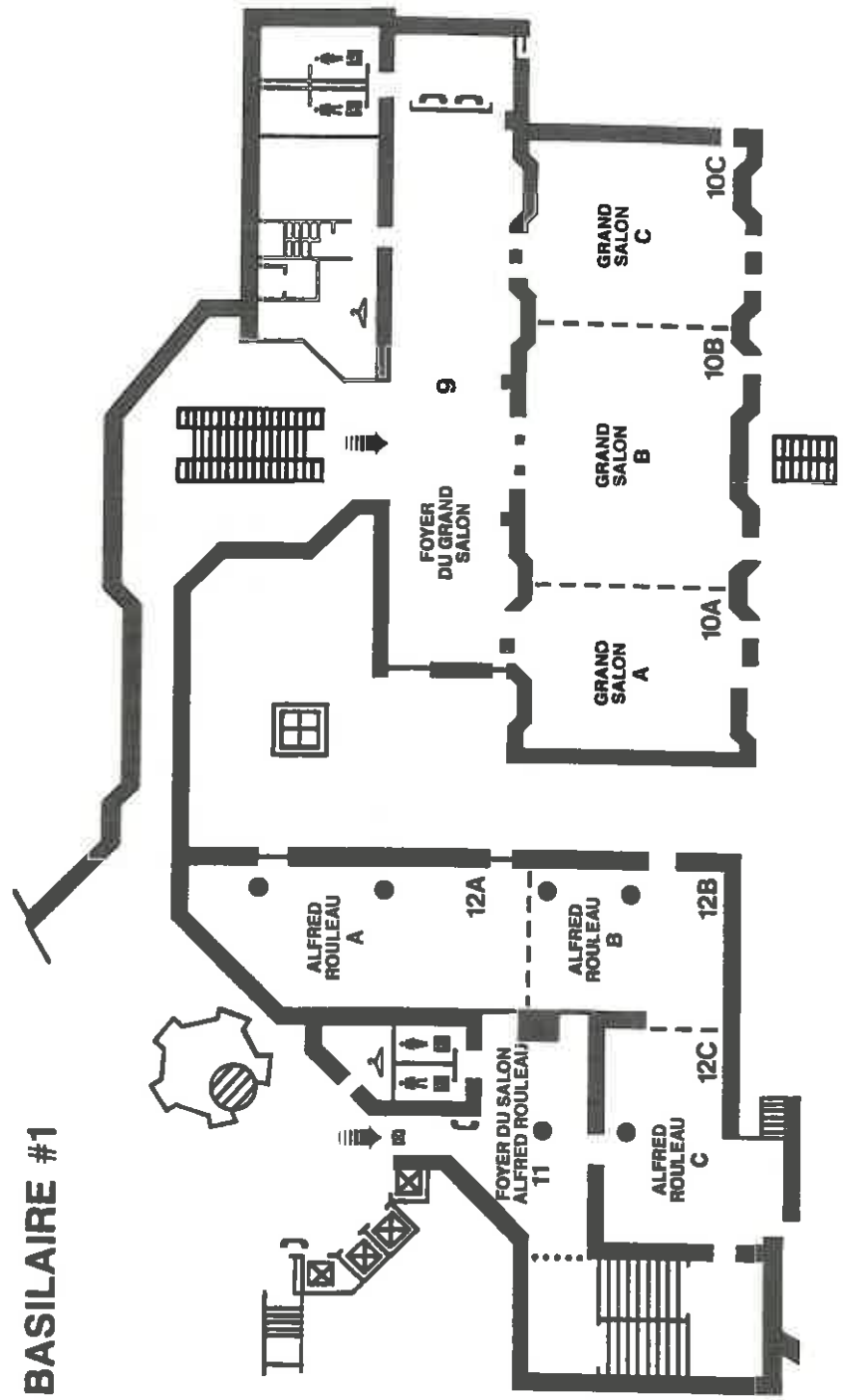
**Montréal
April 19 - 22, 1990
Hôtel Méridien**



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**7th International Conference
on Infant Studies (ICIS)**

Philip R. Zelazo
Montreal Children's Hospital / McGill University
Editor and Program Chair

Diane Poulin-Dubois
Concordia University
Associate Editor

Montréal

April 19 - 22, 1990

Hôtel Méridien



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The 7th International Conference on Infant Studies
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Welcome to the Seventh Biennial meeting of the International Conference on Infant Studies. This meeting is especially important since it marks the first time that we meet under the auspices of the newly formed International Society for Infant Studies. The Society is dedicated to organizing meetings in which the most current empirical research in the area of infant studies may be presented.

The Montreal meeting is the first held outside the United States. We plan to make the organization truly international in composition so as to increase important scientific exchange.

If you have not already joined the society for 1990 please do so now and join us at the Business meeting to elect new officers. Your involvement in the organization and its planning is critical.

I hope you enjoy the conference.

Nathan A. Fox
President, ISIS

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 UNIVERSITY OF CALIFORNIA AT LOS ANGELES 5

It is my intention as incoming president of the society to do very little. Our society is rather unique in that it was generated by the International Conference for Infant Studies rather than vice versa. The society was formed not because of dissatisfaction with the conference but rather because people were in general very pleased with our meetings and sought a vehicle to facilitate them and to provide some organizational continuity. Therefore because nothing is broken, I will restrain any impulse to fix it and pledge to steadfastly maintain the status quo. This does not mean that I will not welcome suggestions for improving our society or correcting any problems that may exist or arise.

Gerry Turkewitz
 President Elect

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Philip R. Zelazo, Editor and Program Chairman

The primary justification for convening 1,000 to 1,200 researchers of infant behavior from around the world—a costly enterprise in both money and time—is to exchange information in a manner that is more current than publication in professional journals. The publication of the conference program and abstracts of the proceedings offers a partial record of the meeting and arguably, represents the most current public pulse of a field. One possible exception, the grant review process, is more current but ideas and proposed studies rather than actual research are presented; the work is neither underway nor are the proposals public. Thus, publication of the conference program and abstracts of a research conference represent an important vehicle for information exchange. Even the most well organized and conscientious convention-goer usually cannot attend every symposium, paper or poster of interest; there are far too many events and equally important informal exchanges to compete with. Without these publications, there would be no record of the scientific information transmitted at the meeting and much of the justification for the tremendous commitment of labor, time and money invested to both organize and participate in the conference would be lost.

There were a total of 567 submissions to ICIS-1990 in the form of oral presentations, posters and symposia. These include 36 symposia, each with three to five presenters and one or two discussants. When abstracts of individual oral presentations within the submitted symposia are counted, the total number of individual abstracts equals 675—an impressive indication of interest in ICIS-1990.

Total submissions to each panel represent one measure of current thematic interest. These panel totals and the rate of acceptance for each panel are listed below. Acceptance rates are determined by a number of factors in addition to quality of submissions and standards set by individual panels, although procedures were followed in an effort to standardize the review process and minimize variance across panels.

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 VANDERWALLE, GRETCHEN %

Panel	# of submissions	% acceptance
1 Biological Processes and Motor Development	43	88%
2 Perception/Attention	54	98%
3 Cognition/Intelligence	47	96%
4 Language/Communication/Play	58	95%
5 Temperament and Social/Emotional Development	80	80%
6 Parent-Child Interaction	70	88%
7 Peer-Sibling Interaction	24	96%
8 Early Environment and Day Care	33	76%
9 High Risk and Pediatrics	87	94%
10 Psychopathology and Developmental Delay	32	75%
11 Social Policy	12	83%
12 Foreign (56 before distribution to thematic panels)	27	81%

Special events on our program include three invited speakers in addition to the first ICIS Presidential Address. Special events also include five invited symposia, an invited film hour and two structured conversation sessions featuring United States and Canadian granting agency representatives discussing funding procedures and priorities. A reception honoring professors Thérèse Gouin Décarie and Mary D. S. Ainsworth, along with a dinner featuring French cuisine, complete our special events.

Conference programs and their proceedings provide the pulse of a discipline—a reading of its areas of interest and focus—yet the very immediate nature that renders a conference its primary justification also limits opportunities for integration and synthesis of the material. The following summaries represent an attempt to partially rectify this generally missed opportunity. Submissions to the various panels were examined by members of the Steering Committee whose expertise matched these panels. After the submissions were reviewed and ranked by the various panel heads and panel members, the twelve panels were grouped into four thematic sections and analyzed by two Steering Committee members. The two Committee members reviewed all submissions to these panels to prepare paper and poster groupings for these submissions. The brief summaries that follow represent an opportunity for the Steering Committee members to share their detailed knowledge of these submissions.

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STOCKER, CLARE	UNIVERSITY OF COLORADO	14
STRAUSS, ELLEN	TULANE UNIVERSITY	27

Biological Foundations, Motor and Socio-Emotional Development

Phillip R. Zelazo

Montreal Children's Hospital/McGill University

Nancy Burl Zelazo

Vanier College

Thirty years after the rebirth of infant research, the resurgence of interest has finally reached prominence in the study of early motor development. One obvious difference in the composition of this Conference relative to our meeting in 1988 is the visibility of research on motor development. The words "motor development" appear in the title of Panel 1, Biological Processes and Motor Development, for the first time. A more substantial indication is that 20% of all submissions to Panel 1 had motor development in the title and this represents only a subset of all submissions concerned with motor issues.

Many of the submissions on motor development reflect the use of kinematic analyses, adding greater precision to the measurement of motor abilities. There is also an increased effort to document the psychological changes accompanying various motoric accomplishments. This resurgence of interest may ultimately force a refinement and probably a revision of the classic research conducted in the early thirties and will provide new data to evaluate our theories and assumptions about the sensori-motor period.

A parallel, although less sudden, influence occurred in Panel 5, Temperament and Socio-Emotional Development. In anticipation of a larger representation of research on temperament, a discernible but not prominent influence in ICIS-1988, the word "temperament" was added to the Panel Title. Our expectation that research on temperament would be more prominent at this Conference was confirmed; 30% of all submissions to Panel 5 used the word "temperament" in their titles. This work refines and validates the construct "temperament" and clarifies its association with more complex traits.

Diane Poulin-Dubois
 Naomi Goodz
 Dawson College

The majority of the 50 submissions concerned with perception focused on intermodal perception and perception of social stimuli. This emphasis, combined with relatively less "visibility" of vision research, is in accord with the recent shift from tracing the emergence and stability of particular perceptual abilities to the study of functionally relevant stimuli. Consistent with the recent publication of an entire volume on the topic, and a large section in the second edition of the Handbook of Infant Development, research on auditory perception is thriving. With 30% of the submissions to the Perception Panel. Despite this interest in auditory perception, very few submissions were concerned with speech perception. This paucity may reflect the "cul-de-sac" which currently characterizes inanimate categorical perception derives from mechanisms evolved specifically for speech, and to the lack of an animal model of speech perception that can shed light on the existing literature.

The 1990 crop of papers on cognitive development reveals several clear trends over the last two years. Interest in infant intelligence appears to have waned significantly; only a handful of submissions were received this year. However, two research themes dominate clearly from the 70 submissions received by the cognition panel: memory and categorization. As knowledge about infants' early categories has increased, researchers have turned from a focus on the categories themselves toward the processes responsible for these early achievements. Greater efforts to connect research in infancy to models of adult categorization are visible. Further, the current research on infant memory has moved away from a focus on visual recognition to a fuller range of infant memory abilities. The symposium on the development of anticipations of the future exemplifies this trend. New data on the relations between visual recognition memory and later cognitive development reveal a need to integrate these data in a larger framework.

That language development has been relatively neglected by infancy researchers for many years is indicated by the absence of a significant section on language in many textbooks on infancy. However, with over 70 papers, including 4 symposia, the 1990 conference accurately reflects the now huge recent literature and interest in language development. The invited symposium on the transition to speech brings together researchers who have documented changes in the organization of babbling that could be linked to the emergence of speech. This, in itself, is an indication of the recent progress made in describing the development of speech production and early language. Dominant research themes concern early communicative interactions between adults and prelinguistic infants, and the affective and linguistic functions of motherese. Traditional domains of investigation are replaced by research on the effect of mother-infant play and interaction with peers, in accord with the current Vygotskayan influence on the field. Little attention is currently paid to the study of play in infancy.

2, 16	UNIVERSITY OF TEXAS AT AUSTIN	RITTER, JEAN
32	UNIVERSITY OF WISCONSIN	ROACH, MARY
26	BOYS TOWN NATIONAL INSTITUTE	ROBERTS, KENNETH
10	EARLY INTERVENTION RESEARCH INSTITUTE	ROBERTS, RICHARD
4, 33	CORNELL UNIVERSITY	ROBERTSON, STEVEN
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19	UNIVERSITY OF DENVER	ROBINSON, NANCY S
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27, 43	UNIVERSITY OF CALIFORNIA AT LOS ANGELES	RODININ, CAROL
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30	UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER	ROGERS, SALLY J
14, 16	UNIVERSITY OF ARKANSAS	ROGGMAN, LORI A
10	UNIVERSITY OF TEXAS AT AUSTIN	ROGGMAN, LORI A
5	UNIVERSITY OF UTAH	ROGOFF, BARBARA
32	NATIONAL RESEARCH COUNCIL	ROLLSTON, FRANCIS
6	UNIVERSITY OF PUERTO RICO	ROMAGUERA, JOSEFINA
21	ALBERT EINSTEIN COLLEGE OF MEDICINE	ROSE, SUSAN
7	BOSTON UNIVERSITY	ROSE-JACOBS, RUTH
26	UNIVERSITY OF CALIFORNIA AT BERKELEY	ROSENBERG, ALLISON
10	UNIVERSITY OF CALIFORNIA AT BERKELEY	ROSENBERG, ERICA
25, 41	WHEATON COLLEGE	ROSENBLUTH, JUDY
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28	UNIVERSITY OF WATERLOO	ROSS, HILDO
1	UNIVERSITY OF PITTSBURGH	ROSS, SHELLEY
1	UNIVERSITY OF OREGON	ROTHBART, MARY K
11, 38	UNIVERSITY OF YESHIVA	ROTTER, ANNETTE
39	RUTGERS UNIVERSITY	ROVEE-COLLIER, CAROLYN
21	RUTGERS UNIVERSITY	ROVET, JOANNE
8, 14	HOSPITAL FOR SICK CHILDREN	RUBIN, KENNETH H
39	UNIVERSITY OF WATERLOO	RUBIN, KENNETH H
18, 25	ALBERT EINSTEIN COLLEGE OF MEDICINE	RUFF, HOLLY
30	UNIVERSITE DU QUEBEC A MONTREAL	SABATIER, COLETTE
26	AIN SHAMS UNIVERSITY	SADOK, A
1, 27	UNIVERSITY OF HAIFA	SAGI, ABRAHAM
27	LAURENTIAN UNIVERSITY	SALMONI, ALAN W
25	ALBERT EINSTEIN COLLEGE OF MEDICINE	SALTARELLI, LISA
6, 12, 35	BROWN UNIVERSITY	SAMEROFF, ARNOLD J
36	KING-DREW MEDICAL CENTER	SANDERS-PHILLIPS, KATHY
31	UNIVERSITY OF CALGARY	SAUVE, R
4	BROOKLYN COLLEGE	SAYLOR, CONWAY
10, 43	MEDICAL UNIVERSITY OF SOUTH CAROLINA	SCANLON, MARTIN
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10	UNIVERSITY OF ARIZONA	SCHAEFFER, WILLIAM
2	UNIVERSITY OF MARYLAND	SCHANDEL-KLITSCH, EILEEN
40	PENNSYLVANIA COLLEGE OF OPTOMETRY	SCHAECHTER, AMY
21	RUTGERS UNIVERSITY	SCHERER, ANAT
31	ST. CHRISTOPHER'S-CLARKSON CHILD CARE SERVICE	SCHERER, SCOTT
5	UNIVERSITY OF CHICAGO	SCHMIDT, CHRIS
31	UNIVERSITY OF HAIFA	SCHNEIDER, BRUCE
31	UNIVERSITY OF TORONTO	SCHOBERLEIN, S
33	WAYNE STATE UNIVERSITY	SCOTT, BRIAN
30	SURREY PLACE CENTRE	SCULLY, D. M
7	UNIVERSITY OF ILLINOIS	SEBRIS, SANDRA
33	NEW YORK STATE PSYCHIATRIC INSTITUTE	SEIFER, RONALD
35	BROWN UNIVERSITY/BRADLEY HOSPITAL	SELF, PATRICIA
9, 22	OKLAHOMA STATE UNIVERSITY	SENDERS, STEFAN
38	UNIVERSITY OF MASSACHUSETTS	SENGHAS, ANN
24	HARVARD UNIVERSITY	SEPKOSKI, CAROL
35	HARVARD MEDICAL SCHOOL	SERBIN, LISA A
22	CONCORDIA UNIVERSITY	

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RADELL, PETER	UNIVERSITY OF NORTH CAROLINA AT GREENSBORO	13
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RAMEY, CRAIG T	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	12
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RISHPON, S	CARMEL HOSPITAL	31
RITCHIE, S	WEST VIRGINIA UNIVERSITY HEALTH SCIENCES CENTER	35

Recent Trends in The Study of Infant Social Relations

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F.F. Strayer
Université du Québec à Montréal

Proposals dealing with basic research on early social interaction and interpersonal relations were reviewed by Panels 6, 7 and 8 of the programme committee. A total of 144 abstracts were accepted for presentation with about 15% of the total submissions refused. Nearly 60% of the accepted submissions dealt with parent-child relations; the remaining 40% addressed questions about early experience with peers and secondarily, care givers. Nearly three-quarters of the proposed communications were poster submissions, about 15% oral papers and 10% symposia.

Research questions in both the family and peer-daycare panels covered a similar diversity of topics — ranging from micro-analytic studies of nonverbal and verbal communication to more general considerations of how ecological and/or situational factors influence children's early social and cognitive development. Research reports about social processes were readily categorized according to their focus on social interaction (emotional expressions, interactive synchrony), interpersonal relationships (toddler's friends and siblings), or more general influences of the prevailing social ecology (parental dynamics, care giver-infant relations, or social roles in the peer group). A second series of studies focused more directly on how aspects of the physical and social environment differentially influence early growth and development. Finally, a third set of submissions dealt with methodological and analytic questions for improving our perception and inferences about processes underlying infant social development.

High Risk, Pediatrics and Psychopathology

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Maria Ramsay

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Panels 9 (High Risk and Pediatrics) and 10 (Psychopathology and Developmental Delay) were notable for the high number of submissions, the emphasis on long-term follow-up, and the increasing interest in the effects of pre-natal substance abuse. The High Risk Pediatrics Panel received 87 submissions, the highest number among the eleven topical panels, reflecting high interest in clinical research and application of basic research to clinical issues. Moreover, Panels 9 & 10 received a remarkable 14 symposia submissions. Almost equally surprising was a complete absence of papers or posters on the topic of AIDS-exposed infants.

Because of the nature of the topic, these papers must of necessity be essentially monitoring studies and correlational in design. There appears to be little or no consensus on what the most important outcome measures should be, although there is a clear emphasis on the general construct of "mother-infant interaction". It will be of interest to see whether a consensus emerges that there are (or are not) particular consequences causally attributable to particular pre-natal risk factors, and whether intervention "works".

Social policy was added to the list of Panels (#1) and although the number of submissions was low (12), the significance of this area is great.

2, 7	ARIZONA STATE UNIVERSITY
40	UNIVERSITÉ DU QUÉBEC À MONTRÉAL
10, 24	UNIVERSITÉ DU QUÉBEC À MONTRÉAL
24, 40	UNIVERSITY OF ILLINOIS
9, 25	UNIVERSITY OF MINNESOTA INST. OF CHILD DEVELOPMENT
30	HOSPITAL FOR SICK CHILDREN
7	SYRACUSE UNIVERSITY
26	CHILDREN'S HOSPITAL MEDICAL CENTER
43	THE HEBREW UNIVERSITY
35	CENTER FOR MEDICAL POSTGRADUATE STUDIES
22	UNIVERSITÉ DU QUÉBEC À MONTRÉAL
30	THE CHILDREN'S HOSPITAL
21	SUNY AT ALBANY
10, 23	UNIVERSITY OF MASSACHUSETTS
9, 33	UNIVERSIDADE FEDERAL DO RIO DE JANEIRO
39	PENNSYLVANIA STATE UNIVERSITY
10, 28	PURDUE UNIVERSITY
11	UNIVERSITY OF OREGON
24	UNIVERSITY OF KANSAS
43	UNIVERSITY OF CALIFORNIA AT LOS ANGELES
17	DUKE UNIVERSITY MEDICAL CENTER
21	UNIVERSITY OF TEXAS
6, 20	DUKE UNIVERSITY
30	ST. JOHN'S UNIVERSITY
17	NATIONAL INSTITUTE OF MENTAL HEALTH
1, 31	UNIVERSITY OF WASHINGTON
26	JERUSALEM CHILD DEVELOPMENT CENTER
41	BAPTIST MEDICAL CENTER FOUNDATION
15	MCGILL UNIVERSITY
33	UNIVERSITY OF WASHINGTON
15, 29	LOUISIANA STATE UNIVERSITY MEDICAL CENTER
11	ADELPHI UNIVERSITY
11	FREE UNIVERSITY OF AMSTERDAM
3, 27	TIMBERLAWN FOUNDATION
33, 39	HOWARD UNIVERSITY
14	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT
15	UNIVERSITY OF CALIFORNIA AT RIVERSIDE
43	HARVARD GRADUATE SCHOOL OF EDUCATION
20	UNIVERSITY OF WASHINGTON
33	MICHIGAN STATE UNIVERSITY
5	JEWISH GENERAL HOSPITAL
6, 19	INSTITUTE FOR SOCIAL PEDIATRICS
19	INSTITUTE FOR SOCIAL PEDIATRICS
8	CASE WESTERN RESERVE UNIVERSITY
3	UNIVERSITY OF ILLINOIS
44	KINGSTON GENERAL HOSPITAL
33	BOSTON CITY HOSPITAL
27	UNIVERSITY OF MIAMI
6	MICHAEL REESE HOSPITAL & MEDICAL CENTER
2	EDMONTON BOARD OF HEALTH
15	UNIVERSITY OF WASHINGTON
4	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
29	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT
26	UNIVERSITY OF WESTERN ONTARIO
37	UNIVERSITY OF BRITISH COLUMBIA
2, 40	FLORIDA INTERNATIONAL UNIVERSITY
39	UNIVERSITY OF WASHINGTON
21	UNIVERSITY OF MASSACHUSETTS
25	FLORIDA STATE UNIVERSITY
2	QUEEN'S UNIVERSITY
34	UTAH STATE UNIVERSITY

MADEL, JACQUELINE
NANEZ, JOSE
NAUD, JACQUES
NEEDHAM, AMY
NELSON, CHARLES
NEUMAN, JAN
NEW, REBECCA
NEWELL, KARL
NEWMAN, ISADORE
NINIO, ANAT
NIZNIKOWSKA-MARKS, M. J
NOEL, JEAN-MAX
NORENBERG, SUSAN
NORMAN, SLOAN
NUGENT, KEVIN
NUNES, LEILA
NUNES, JULIET
NWOKAN, EVA
O'BOYLE, CHERIE
O'BRIEN, MARION
O'CONNOR, MARY J
O'DONNELL, KAREN
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OEHLER, JERRI
OH, PHYLLIS S
OLIVER, MARY ELLEN
OLSHO, LYNN WERNER
ORNOY, ASHER
ORR, WILLIAM C
OSHIMA-TAKANE, YURIKO
OSHO, SACHIKO
OSOFSKY, JOY
OSTER, HARRIET
OTTENHOFF, G
OWEN, MARGARET TRESCH
OWEN, MARGARET TRESCH
OWEN, MARGARET TRESCH
OYEMADE, URA JEAN
PAINTER, KATHY
PALMER, SHERRI ADDIS
PAN, BARBARA
PANAGIOTIDES, HERACLES
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PAPAGEORGIOU, A
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PARK, ANGELA M
PARK, ROSS D
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PARTIDGE, MARY F
PATON, JOHN
PATON, THOMAS
PATTERSON, DOROTHY
PEARSON, ELLYN
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PEDERSON, DAVID R
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PERMAN, KAY
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MCDONNELL, PAUL	UNIVERSITY OF NEW BRUNSWICK	27
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Registration

Registration will take place in the lobby of the conference floor on Thursday, April 19, from 8h00 to 14h00 from 8h00 to 14h00 on Friday, April 20, and on Saturday, April 21, from 8h00 to 12h00 (noon).

Conference Abstracts/Book Exhibit

Conference abstracts and book exhibits will be available in the Foyer outside the main ballroom.

Social Hour

A Social Hour will be held on Thursday evening, April 19, from 18h00 to 20h00. Cocktails will be available.

Business Meeting

The Business Meeting will be held on Thursday, April 19, from 16h00 to 17h00 in the Grand Salon.

Banquet

On Friday, April 20 at 20h00, the Conference will host a Gala Dinner at the Meridien Hotel. Delegates are encouraged to purchase their tickets in advance. (\$40 Cdn/\$35 US)

Reception

On Saturday, April 21 at 19h00 to 21h00, the Conference will host a Reception in honor of Professor Mary D.S. Ainsworth and Professeur Thérèse Gouin Décarie at the beautiful "Le Windsor" Reception Room in the heart of downtown Montréal. Advance tickets can be purchased. (\$18 Cdn/\$15 US)

For further information, please contact:

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Programme Chairman
Montreal Children's Hospital
McGill University*

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Montréal, Québec, Canada
H3X 3Y1*

Tel.: (514) 485-0855 Fax: (514) 487-6725

Thursday, April 19		Friday, April 20		Saturday, April 21		Sunday, April 22	
8h00 - 9h00		Poster Session B1 8h00 - 9h50	Poster Sessions F1 - F5 8h30 - 9h50	Poster Session C1 8h00 - 9h50	Poster Sessions S1 - S5 8h30 - 9h50	Poster Session D1 8h00 - 9h50	Poster Sessions DST - DS6 8h30 - 9h50
9h30 - 11h30	ISIS Executive Meeting	Paper Sessions F6 - F11 Poster Session B2 10h00 - 11h50	ISIS Executive Meeting 12h00 - 13h30	Paper Sessions S6 - S10 Poster Session C2 10h00 - 11h50	Paper Sessions DST7 - DST12 10h00 - 11h50		
10h00 - 11h00							
11h00 - 12h00	Paper Sessions T1 - T4 Poster Session A1 11h00 - 13h20	Invited Firm Hour Structured Conversation 12h00 - 13h30	ISIS Executive Meeting 12h00 - 13h30	Structured Conversation Session 12h00 - 13h30			
12h00 - 13h00							
13h00 - 14h00	Invited Speaker 13h30 - 14h30						
14h00 - 15h00	Invited Speaker 14h30 - 15h30	Invited Symposium 13h30 - 15h45	Invited Speaker 13h30 - 15h00	Invited Symposium 13h30 - 15h45			
15h00 - 16h00							
16h00 - 17h00	ISIS General Meeting 16h00 - 17h00	Paper Sessions F12 - F16 Poster Session B3 16h00 - 17h50	Paper Sessions S11 - S16 Poster Session C3 16h00 - 17h50				
17h00 - 18h00	Presidential Address 17h30 - 18h00						
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11h30-13h15

Grand Salon C

Symposium

T1 Maternal Depression: Effects on Infants

Chair: Tiffany Field

Maternal Depression and Infant Development: Preliminary Results of an Early Intervention Program

Douglas Teti, Donna M. Gelfand

Postpartum Adaptation and Postpartum Depression in Primiparous Women
 Susan Campbell, Shelley Ross, Marquita Elmore, Sally Popper

Face-to-face Interactions of Depressed and Non-Depressed Mother-Infant Pairs at 2, 4, and 6 Months
 Jeffrey Cohn, Reinaldo Matias

Behavioral States and Rhythms of Depressed Mother-Infant Dyads
 Tiffany Field

Discussants: Edward Z. Tronick, Daniel Stern

Paper Session

Argenteuil

T2 Speech Perception

Chair: Nancy Tarquinio

Infant and Adult Perception of Differing Nonnative Speech Contrasts: Differences in Relation to the Listener's Native Phonology

Catherine Best, Gerald McRoberts, Eliza Goodell, Jane Womer, Glendessa Insabella, Peter Kim, Laura Klatt, Stephen Luke, Jean Silver

Three-Month-Old Infants Selectively Imitate Vowel Sounds
 Maria Legerstee, Christopher Moore

Relative Saliency of Prosodic Features and Vowel Content: Development between 7 and 12 Months of Age
 Joseph Byrne, Cynthia Lynne Miller

Young Infants' Perception of Coarticulatory Influences between Adjacent Consonants
 Catherine Best, Carol A. Fowler, Gerald McRoberts

Vowel Categorization in Very Young Infants
 Cameron Marean, Lynne Werner Olsho, Patricia Kuhl

Symposium

Grand Salon B

T3 Attachment Measured by the Strange Situation: New Directions

Chair: Nathan Fox

Attachment Networks in Infancy and Their Correlates at Pre-School Age
 Marinus Van IJzendoorn, Hylda Woudstra, Marian Kranenberg

Development of Infant-Mother Attachment in Traditional and Non-Traditional Kibbutzim

Abraham Sagi, Ofra Mayseless, Ora Aviezer, Frank Donnell, Yael Harel, Moshe Tuvia, Tirtsa Joels

Complications of Uncontrolled Mother/Stranger Contingencies in Maternal Depar-
tures and in the Strange Situation: A Functional Analysis
Jacob Gewirtz, Marta Pelaez-Nogueras
Concordance of Classification of Security in Mother/Father and Mother-Daycare
Provider Attachment: A Meta Analysis
Nathan Fox, Nancy Kimmerly, William Schaffer
Discussant: Inge Bretherton

Paper Session

Picardie A and B

Parental Influence

Chair: Jacqueline Nadel

Ecological and Physical Environment Influences upon Mother-Infant Transactions
Theodore Wachs, Ozlem Camli

✓ Patterns of Husband-Wife Adaptation

Christoph Heinicke

Responsive Parenting from Infancy to Age 12

Leila Beckwith, Dante Cicchetti

Preliminary Report on the Kansas Infant Development (KID) Research Project
Frances Degen Horowitz

Symposium

T5 Early Tracking Systems: Strategies for Prevention and Early Intervention

Grand Salon A

Chair: Ray Dev. Peters

High Priority Infant Tracking Project

Susan Janko

Staying on Track Project

Sara Landy, Ray Dev. Peters, A. Brian Allen, Faye Brooks

Edmonton Board of Health Project

Thomas Paton, Wadieh Yacoub

Discussant: Dugal Campbell

1130-1320

Poster Session A1

Alfred Rouleau AB

Ecological Aspects of Child Care

A1.01 Age-appearance as a Clue to Developmental Status: Are Caregivers' Expectations
Biased?
Rita Casey, Jean H. Ritter

A1.02 A Look at Noise and Object Clutter Introduced into the Home: Effects on Infant
Attention and Exploration
Nanci Weinberger

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Alfred Rouleau AB

- A1.03 Caregiver Sensitivity and Infant Caregiver Attachment in Child Care
Darlene Galluzzo
 - A1.04 Using the Home Inventory in Latin America
Betsy Lozoff, Angela M. Park, Abraham Wolf, Angela Radan
 - A1.05 Maternal Employment and Marital Quality during the First Year of Parenthood
Margaret Tresch Owen, Martha J. Cox
 - A1.06 Maternal Antecedents of Quality of Care at 5 Months Predict 18-Month Bayley MDI Performance
Henry Ricciuti, Marney Thomas
 - A1.07 Socio-Emotional Competence in Swedish Schoolchildren Related to Early Child Care and Mother's Employment Rate
Bengt-Erik Andersson
 - A1.08 Who's Minding the Baby: Predictors of Caregiving
Colette Jones, Judith A. Heermann
 - A1.09 Strangers and Infants Become Acquainted
Patrice Miller
 - A1.10 Infants and Toddlers from a Majority and Minority Culture at Home and in Daycare
E. Kuno Beller
 - A1.11 The Cultural Context of Early Infancy in Japan and the United States
Marguerite Stevenson
 - A1.58 Behaviors and Beliefs of Caregivers in Family Day Care: The Effects of Background and Work Environment
Miriam K. Rosenthal
- Perception**
- A1.12 Infants' Use of Hair and Clothing Cues to Discriminate Pictures of Men and Women
Mary Leinbach
 - A1.13 Newborns' Recognition of Mother from Multisensory Interaction: Implications for Early Learning and Bonding
Sonya Rosenwald Kurzweil
 - A1.14 Integration Skills in 8-, 10- and 12-Month-Old Infants
Martha Arterbery
 - A1.15 Holding and Rocking the Full-Term Neonate: The Immediate and Residual Effects on Behavioral State and Heart Rate
Timothy Marshall, Philip Zeskind
 - A1.16 Deficits in Blind Toddlers' Calibration of Perception and Action
John Rieser, Charles Talor, Anne Garing
 - A1.17 Perceiving Affordances of Slopes: The Ups and Downs of Toddlers' Locomotion
Karen Adolph, Marion A. Eppler, Eleanor J. Gibson
 - A1.18 Precision of Very Young Children's Perception and Action in a Locomotor Search Task
John Rieser, Anne Garing

Poster Session A1		Alfred Rouleau AB	
A1.19	Three-Month-Olds' Responses to Televised Upright and Inverted Faces of Their Mothers and a Stranger during Live, Face-to-Face Interactions	Katharina Rach-Longman, Darwin Muir	14
A1.20	Infants' Affective and Attentional Responses to Tactile and Auditory Stimuli Varying in Complexity	Dale Stack, Elizabeth Bennett	15
A1.21	Tactical Representation in 2-Month-Old Infants	Arlette Streri, Michèle Molina, Gilles Millet	16
A1.22	Effects of Early Parent Touch on Preterm Infants	Lynnda Law Harrison	17
A1.23	Tactile-Kinesthetic Massage and Heelstick Effects on TPO ₂ in Preterm Neonates: Clinical Implications	Connie Morrow	18
A1.24	Neonatal Heart Period and Social Interaction Correlates of Development at Two Years	Julie Hoffheimer, Lydia Aydielt, Eilyn Pearson, Edward Lawson	19
A1.25	Vagal Tone and the Fussy Infant: A Typical Vagal Reactivity in the Difficult Infant	Jane Doussard-Roosevelt, Patricia Walker, Lourdes Portales, Stanley Greenspan, Stephen Forges	20
A1.26	The Effect of Time of Day on Adrenocortical Stress Responses to Maternal Separation	Mary Larson, Laurie Brodersen, Mark Miller	21
A1.27	Group Versus Individual Care: Effects on Adrenocortical Responses to Brief Maternal Separation in Human Infants	Louise Hertsgaard, Mary Beth Wanner, Kate Jodl, Lori Mason	22
A1.28	Cortisol Levels in Premature Infants	Catherine Magnano, Judith Gardner, Edward Diamond	23
A1.29	In Pursuit of Infant Smooth Pursuit: A Repeated Excursion Approach	Sharon Krinsky, Louise Hainline, Martin Scanlon	24
A1.30	Longitudinal Correlates of Newborn Auditory Brainstem-Evoked Responses (ABRS) in the Second Year	Ann Murray	25
A1.32	The Development of Lateral Interactions in the Human Visual System	Jillian Grose, Vance Zemon, James Gordon, Louise Hainline	26
A1.33	Success at AB with Delay Is Related to Frontal EEG Power	Martha Ann Bell, Anne Luebering	27
A1.34	Behavioral Chaos?	Steven Robertson, William Smotherman	28
A1.35	Facial Structure in Infants	Christine Anderson, Deborah Holmes, Cheryl Kiocek	29
A1.36	New Data on Daily Incremental Growth in Infancy	Michelle Lampi	30
A1.37	Neurobehavioral Integrity in Chimpanzee and Human Neonates	Kim Bard	31
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31	GOLDFELD, BEVERLY	CONNECTICUT COLLEGE	31
28	GOLDFELD, EUGENE	CONNECTICUT COLLEGE	28
8	GOLDSON, EDWARD	THE CHILDREN'S HOSPITAL	8
24	GOLINKOFF, ROBERTA	UNIVERSITY OF DELAWARE COLLEGE OF EDUCATION	24
35	GOLUB, H	BOSTON UNIVERSITY SCHOOL OF MEDICINE	35
5	GOMEZ, GLORIA	UNIVERSITY OF PUERTO RICO	5
1, 26	GOODZ, NAOMI	UNIVERSITY OF CONNECTICUT	1, 26
15	GOODZ, NAOMI	DAWSON COLLEGE	15
11	GOOSSENS, FRITS A	FREE UNIVERSITY OF AMSTERDAM	11
35	GORALESKA, A	MEDICAL CENTRE OF POSTGRADUATE EDUCATION	35
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22	GOTTLIEB, GILBERT	HOSPITAL FOR SICK CHILDREN	22
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31	GRANT, SHARON	UNIVERSITY OF ILLINOIS	31
10	GRAVEL, FRANCE	UNIVERSITE DU QUEBEC A MONTREAL	10
14	GRAVEL, FRANCE	UNIVERSITE DU QUEBEC A MONTREAL	14
15	GREEN, JAMES	UNIVERSITY OF CONNECTICUT	15
7	GREEN, MONICA	UNIVERSITY OF NEW BRUNSWICK	7
27	GREENBAUM, CHARLES	HEBRUW UNIVERSITY	27
26	GREENBERG, RHEA H	NEW YORK HOSPITAL-CORNELL MEDICAL CENTER	26
27	GREENE, SHEILA	TRINITY COLLEGE	27
23	GREENSPAN, STANLEY	GEORGE WASHINGTON UNIVERSITY MEDICAL SCHOOL	23
4, 14	GREER, TAMMY	TULANE UNIVERSITY	4, 14
17	GRIFFITH, DANIEL	NORTHWESTERN UNIVERSITY MEDICAL SCHOOL	17
20	GROFFER, LAURA	UNIVERSITY OF WASHINGTON	20
4	GROSE, JILLIAN	BROOKLYN COLLEGE CUNY	4
12	GROSS, RUTH	STANFORD UNIVERSITY	12
27	GRUBER, SUSAN K	NEW YORK HOSPITAL-CORNELL MEDICAL CENTER	27
24	GUILLOREY, ANDREA	UNIVERSITE DU QUEBEC A MONTREAL	24
9	GUNNAR, MEGAN	UNIVERSITY OF OKLAHOMA	9
12, 38	GUSTAFSON, GWEN	UNIVERSITY OF MINNESOTA	12, 38
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38	GUTFREUND, MARY	UNIVERSITY OF BRISTOL	38
16, 25	HAAF, ROBERT	UNIVERSITY OF TOLEDO	16, 25
36	HADEED, ANTHONY	KADLEC MEDICAL CENTER	36
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18, 21	HALLWELL, JANET	UNIVERSITY OF DENVER	18, 21
32	HALSTED, LILY	NATIONAL SCIENCES AND ENGINEERING RESEARCH COUNCIL	32
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20	HANN, DELLA	CALIFORNIA STATE UNIVERSITY	20
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8, 10	HANNAN, KRISTI	MICHIGAN STATE UNIVERSITY	8, 10
6	HANNAN, THOMAS	DUKE UNIVERSITY	6
5, 43	HANS, SYDNEY L	UNIVERSITY OF CHICAGO	5, 43
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1, 27	HAREL, YAEL	UNIVERSITY OF HAIFA	1, 27
35	HARMAT, GY	PEDIATRIC INSTITUTE SZABADSAGHEGY	35
35	HARRIS, M	WEST VIRGINIA UNIVERSITY HEALTH SCIENCES CENTER	35
4	HARRISON, LYNDIA LAW	UNIVERSITY OF ALABAMA COLLEGE OF NURSING	4
11	HARSHMAN, INGRID	STOCKHOLM INSTITUTE OF EDUCATION	11
10	HARTFORD, LAURA	VIRGINIA POLYTECHNIC INSTITUTE	10
40	HARTUNG, JEFFREY	SAN DIEGO STATE UNIVERSITY	40
10	HAYNIE, DENISE	CATHOLIC UNIVERSITY OF AMERICA	10
27, 41	HAZEN, NANCY	UNIVERSITY OF TEXAS AT AUSTIN	27, 41

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FISH, MARGARET	PENNSYLVANIA STATE UNIVERSITY	8, 23
FISHER, CELIA B	FORDHAM UNIVERSITY	24
FISHER, DAVID	MICHAEL REESE HOSPITAL & MEDICAL CENTER	6
FISHER-THOMPSON, DONNA	NIAGARA UNIVERSITY	34
FIVEL, MYRNA	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT	14
FIVUSH, ROBYN	EMORY UNIVERSITY	21
FLANDERS, TIBIE	UNIVERSITÉ DE MONTREAL	14
FLANNERY, KATHLEEN	THE CHILDREN'S HOSPITAL	10
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FOWLER, RODNEY S	HOSPITAL FOR SICK CHILDREN	24
FOX, MERVYN	UNIVERSITY OF WESTERN ONTARIO	5, 8
FOX, NATHAN A	UNIVERSITY OF MARYLAND	1, 2, 6, 29
FRACASSO, MARIA	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT	24
FRANCO, FABIA	UNIVERSITY OF STIRLING	7
FRANK, ILANA	CONCORDIA UNIVERSITY	12
FREEDLAND, ROBERT	UNIVERSITY OF WISCONSIN	40
FREEDMAN, DAN	UNIVERSITY OF CHICAGO	41
FRESEMAN, LAURA	UNIVERSITY OF KANSAS	25
FREIER, CATHERIN	NORTHWESTERN UNIVERSITY MEDICAL SCHOOL	17
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FRIEDMAN, SARAH	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT	17
FRIESE, SUZETTE	UNIVERSITY OF NORTH CAROLINA AT GREENSBORO	15
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FULLARD, WILLIAM	TEMPLE UNIVERSITY	30
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GALLUZZO, DARLENE	UNIVERSITY OF CALIFORNIA AT LOS ANGELES	3
GANIBAN, JODY	UNIVERSITY OF ROCHESTER	30
GANON, ELLEN	ALBERT EINSTEIN COLLEGE OF MEDICINE	15
GARDNER, JUDITH	NYS INSTITUTE FOR BASIC RESEARCH	4, 17
GARING, ANNE	VANDERBILT UNIVERSITY	3
GARNER, PAM	UNIVERSITY OF TEXAS MEDICAL BRANCH	21, 22
GARNIER, HELEN E	UNIVERSITY OF CALIFORNIA AT LOS ANGELES	25
GELFAND, DONNA M	UNIVERSITY OF UTAH	1
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GEWIRTZ, JACOB	FLORIDA INTERNATIONAL UNIVERSITY	2, 40
GIBERTI, LORINE M	VANDERBILT UNIVERSITY	34
GIBSON, ELEANOR J	CORNELL UNIVERSITY/EMORY UNIVERSITY	3
GILBRIDE, KATHLEEN	HARBOR-UCLA MEDICAL CENTER	36
GILL, NANCY E	UNIVERSITY OF FLORIDA	15, 29
GINGRAS, JEANNINE	DUKE UNIVERSITY MEDICAL CENTER	17
GIROUARD, PASCALE	MCGILL UNIVERSITY	26
GISZTL, E	PEDIATRIC INSTITUTE SZABADSAGHEGY	35
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GOFF, NANCY	UNIVERSITY OF ILLINOIS	17
GOLDBERG, SUSAN	HOSPITAL FOR SICK CHILDREN	8, 30

Poster Session A1

Alfred Rouleau AB

Mother-Infant Communication

- A1.38 Referential Communication with Adults and Infants in the Second Year
Haydee Marcos, Mina Verba
- A1.39 The Role of Referential Gazing In Object Exchange
Daniel Messinger
- A1.40 Infants' Contribution to Joint Reference
Dare Baldwin
- A1.41 Does the Quality of Infant Vocalizations Signal Intentionality?
Sherry Beaumont, Kathleen Bloom
- A1.42 The Influence of Child Temperament on Communicative Language Use between Mothers and Their 30-Month-Old Children
Doina Darjan, Helga Feider
- A1.43 Smiling in Older Infants: Relations between Context, Form and Maternal Response
Susan Jones, Tarja Raag, Kimberley Collins, Hye-Won Hong
- A1.44 Support for Social Influence on the Development of Prelinguistic Vocalizations of 5 to 13-Month-Olds
Jacques Moreau, Gérard Malcuit, Andrée Pomerleau
- A1.45 Socializing Attention: Specifying the Relation between Gesture and World
Patricia Zukow
- A1.46 Ostensive Naming: Language from Context
Chris Schmidt
- A1.47 Infants' Instrumental Use of Their Mothers to Achieve Their Goals
Christine Mosier, Barbara Rogoff
- A1.48 Task-to-Task Reliability of Young Infants' Vocal Response to Mother vs Stranger
Kiki Roe

High-Risk: Recent Research

- A1.49 Development of Activity and Behaviors in Preterm Infants: Relation to Sleep-Wake States
Diane Holditch-Davis
- A1.50 Do Premature Infants Have Difficult Temperaments? ✓
Barrie Evans, David Pederson, Sandi Bento, Graham Chance, Mervyn Fox
- A1.51 Perceptual Ratings of the Cries of Methadone-Exposed and Comparison Infants ✓
Lee Huntington, Sydney L. Hans,
- A1.52 Longterm Retention in Low Risk Preterms
Diane Potvin, Nancy Taylor, A. Papageorgiou
- A1.53 Locomotion and Search Behavior in Blind Infants
Ann Bigelow
- A1.54 Follow Up of Infants Who Received Intrauterine Thyroxine ✓
Gloria Reyes Baez, Karlis Adamson, Gloria Gomez, Josefina Romaguera, Marta Varcacel, Rafael Zapata

1130-1342 (cont'd)

- A1:55 Self-Regulation in the Strange Situation: Assessment of Developmental Vulnerabilities in Premature Infants
Margaret Browning, Barbara Fajardo, David Fisher, John Paton
- A1:56 Speech Prolongs Premature Infants' Visual Attention before Term Age
Thomas Hanan, Mandy Medvin, Jerrl Oehler, Carol Eckerman
- A1:57 Pain Response in Preterm Infants: A Descriptive Study of Developmental Change
Melissa Johnson

Invited Addresses

1330-1430

Grand Salon BC

From Sexless Infant to Gendered Child

Eleanor E. Maccoby
Chair: Carollee Howes

1430-1530

Early Language Development: How Things Come Together and How They Come Apart

Elizabeth Bates
Chair: J. Steven Reznick

1330-1545

Grand Salon A

Invited Symposium

Comparative Perspectives on Parent-Infant Relationships:

In Honor of Hanus Papousek

Introduction

Lewis Lipsitt

The Origins of Humanity

Hanus Papousek

First Learning and First Relationships: A Comparative Perspective

Arnold Sameroff

Intuitive Parenting in Non-Human Primates

Steve Suomi

Themes and Variations: Cross-Cultural Comparisons of Melodies in Mothers' Speech

Anne Fernald

Conclusion

Robert Emde

1600-1700

Grand Salon ABC

ISIS General Business Meeting

1700-1800

Grand Salon BC

Presidential Address

If It's Not Left It's Right: Asymmetry, Temperament and the Development of Emotion

Nathan Fox

Chair: Marian Sigman

1800-1900

Grand Salon A

Social Hour

29	UNIVERSITY OF CONNECTICUT	DENENBERG, VICTOR
15	MC GILL UNIVERSITY	DEREVANSKY, JEFFREY
21	UNIVERSITY OF PENNSYLVANIA	DIAMOND, ADELE
4	MOUNT SINAI MEDICAL CENTER	DIAMOND, EDWARD
29	CENTER FOR FAMILY DEVELOPMENT	DIABASE, ROSEMARIE
29	UNIVERSITY OF VERMONT	DIBLASIO, CHRISTINE
20, 22	UNIVERSITY OF MICHIGAN	DICHTENMILLER, MARGO
30	SURREY PLACE CENTRE	DICKENS, SUSAN
8	BRADLEY HOSPITAL	DICKSTEIN, SUSAN
13	UNIVERSITY OF MARYLAND	DIGREGORIO, IOALEE
30	UNIVERSITY OF COLORADO	DILALLA, DAVID
26, 30	UNIVERSITY OF COLORADO	DILALLA, LISABETH
14, 24	MIAMI UNIVERSITY	DIXON, WALLACE
33	CASE WESTERN RESERVE UNIVERSITY	DOERSHUK, CARL
19	BEIJING NORMAL UNIVERSITY	DONG, DI
1, 27	UNIVERSITY OF HAIFA	DONNELL, FRANK
18	UNIVERSITY OF FLORIDA	DONGHUE, ROBERT L.
20	UNIVERSITY OF WISCONSIN	DONOVAN, WILBERTA
7	STANFORD UNIVERSITY	DORADO, JOYCE
4	UNIVERSITY OF MARYLAND INSTITUTE FOR CHILD STUDY	DOUSSARD-ROOSEVELT, JANE
44	HARVARD MEDICAL SCHOOL	DUFFY, FRANK H.
14	PENNSYLVANIA STATE UNIVERSITY	DUNN, JUDY
19	WESTERN CAROLINA CENTER	DUNST, CARL J.
41	LOYOLA UNIVERSITY OF CHICAGO	DYE JR, RAYMOND H.
14, 39	TUFTS UNIVERSITY	EASTERRBOOKS, M. ANN
29	UNIVERSITY OF MANITOBA	EATON, WARREN
24	STANFORD UNIVERSITY	ECHOLS, CATHARINE
6, 28	DUKE UNIVERSITY	ECKERMAN, CAROL
25	WOMEN'S COLLEGE HOSPITAL	EDMONDS, JUNE
33	HOWARD UNIVERSITY	EDWARDS, C. H.
12	PENNSYLVANIA STATE UNIVERSITY	EGGEBEEN, DAVID
16, 31	UNIVERSITY OF MIAMI	EISEN, LISA
22	UNIVERSITY OF VIRGINIA	EISENHART, CORINNE
7	ST. JOSEPH'S HOSPITAL & MEDICAL CENTER	ELIASON, LYNN
26	JERUSALEM CHILD DEVELOPMENT CENTER	ELLA, SUSAN
21, 34	UNIVERSITY OF MINNESOTA	ELLIS, ANN
1	UNIVERSITY OF PITTSBURGH	ELMORE, MARQUITA
6, 29, 30, 42	UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER	EMDE, ROBERT N.
33	UNIVERSITY OF WISCONSIN	ENGELHARDT, KAY
27, 35	EAST CAROLINA UNIVERSITY	ENGELKE, MARTHA
29, 35	EAST CAROLINA UNIVERSITY SCHOOL OF MEDICINE	ENGELKE, STEPHEN
14	TIBURON, CALIFORNIA	EPPERSON, MARY JO
3	EMORY UNIVERSITY	EPPER, MARION A.
31	CARMEL HOSPITAL	EPPSTEIN, L.
41	UNIVERSITY OF CALIFORNIA AT LOS ANGELES	ESPINOSA, MICHAEL
5, 8	MADAME VANIER CHILDREN'S SERVICES	EVANS, BARRIE
25	UNIVERSITY OF PITTSBURGH	EWING, LINDA
16, 23	UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE	EYLER, FONDA DAVIS
21	CASE WESTERN UNIVERSITY	FAGAN, JOSEPH F.
30	ST. JOHN'S UNIVERSITY	FAGEN, JEFFREY I.
18, 35	UNIVERSITY OF OREGON	FAGOT, BEVERLY I.
6	MICHAEL REESE HOSPITAL & MEDICAL CENTER	FALJARDO, BARBARA
44	QUEEN'S UNIVERSITY	FALKNER, S.
43	UNIVERSITY OF NORTH CAROLINA AT GREENSBORO	FARAHAN, DALE
31	EVANSTON HOSPITAL	FARBELL, ELAINE E.
14	OKLAHOMA STATE UNIVERSITY	FARVER, JO ANN
11, 39	PENNSYLVANIA STATE UNIVERSITY	FEAGANS, LYNNE
5, 43	UNIVERSITE DU QUEBEC A MONTREAL	FEENEY, PATRICK
21	ALBERT EINSTEIN COLLEGE OF MEDICINE	FEIDER, HELGA
13	UNIVERSITY OF MARYLAND	FELDMAN, JUDITH
12	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	FELDSTEIN, STANLEY
		FENDT, KAYE H.

CLELAND, JERRY W	LOYOLA UNIVERSITY OF CHICAGO	41
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COLOMBO, JOHN	UNIVERSITY OF KANSAS	25
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COX, SUZANNE	UNIVERSITY OF CHICAGO	34
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CROSS, DAVID R	TEXAS CHRISTIAN UNIVERSITY	7, 33
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DARJAN, DOINA	UNIVERSITÉ DU QUÉBEC À MONTRÉAL	5
DARKE, PETER	HOSPITAL FOR SICK CHILDREN	20
DARROW, DEBORAH K	RHODE ISLAND HOSPITAL	31
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DELOACHE, JUDY	UNIVERSITY OF ILLINOIS	16

8h30-9h50

Paper Session

Picardie AB

F1 Grasping and Reaching
Chair: Elizabeth Leonard

Kinematic Assessment of Reach in Healthy Term and Preterm Infants at 7, 9, and 12 Months of Age

Ruth Rose-Jacobs, Linda Fetters

Kinematics of Reaching in Normal and Cerebral Palsied Infants

Elizabeth Leonard, Ruth A. Maulucci, Lynn Eliason

The Paleo-morphology of the Human Hand and Its Implications for the Onset and Functions of Pointing

George Butterworth, Fabia Franco

Task Constraints and Infant Grip Configurations

Karl Newell, D. M. Scully, P. V. McDonald, R. Bailargeon

Paper Session

Argenteuil

F2 Quantitative Methods
Chair: Claude Dumas

Multivariate Lag Analysis: An Extended Approach for Studying Patterns of Family Changes in Early Childhood

Holger Wessels, Alexander Von Eye

Methods for Comparing Two Correlation Matrices

James Green

Modeling the Role of the Family in the Effects of Child Care

Margaret Tresch Owen, David R. Cross

Paper Session

Grand Salon C

F3 Imitation and Communication
Chair: Helga Feider

Deferred Imitation of Peers by 14-Month-Olds

Elizabeth Hanna, Andrew N. Meltzoff

Young Children's Use of Prosody in Their Speech to Infant Siblings: Is It Really "Motherese"?

Anne Fernald, Joyce Dorado

Comparing the Communicative Function of Imitation in Autistic Children and Prelinguistic Toddlers

Jacqueline Nadel, A. M. Fontaine

Turn Rule Structures in Protoconversation

Joseph Jaffe

Paper Session

Grand Salon A

F4 Early Interactive Predictors of Later Functioning
Chair: Maria Ramsay

Predictive Validity of Nonverbal Communicative Skills in Infants with Perinatal Hazards

Stein Erik Ulvund, Lars Smith

8h30-9h50 (cont'd)

Maternal Perception of Infant Cry and Later Developmental Status
Zachariah Boukydis, Barry Lester

Effects of Postterm Pregnancy on Neurobehavioral Responsiveness and Mother-Infant Interaction
Claudia Anderson Beckmann

Symposium

Chronic Illness in Infancy: Biopsychosocial Influences

Chair: Susan Goldberg

The Origins of Asthma in the Context of the Mother-Infant Relationship
Mary D. Kinnert, David Mrazek

Relationships between Paternal Perceptions of Self, Spouse and Chronically-Ill Child and Marital Interaction and Father-Child Interaction
C. Ruth Solomon, Maryna Beaulieu, Genevieve Teller, André Lamarre,

Chantal Baron, Jacques Breton
Severity of Cardiac Disease
Susan Goldberg

Chronic Illness and the Vulnerable Child Syndrome
Joanne Royet

Discussants: Edward Goldson, Barbara Smith

8h00-9h50

Alfred Rouleau AB

Home Environment and Social Support

Home Environment and Intellectual Development in the First Three Years: A Structural Analysis
Robert Bradley, Stephen L. Rock, Bettye M. Caldwell, Leanne Whiteside

Stress and Social Support for Mothers of Preterm and Full Term Infants
Sandi Bento, Graham Chance, Barrie Evans, Mervyn A. Fox

Role of Knowledge of Child Development in Adolescent and Adult Teaching Interactions
Emily Johnson

Infant Social Referencing: The Impact of Marital Satisfaction and Family Origin Relationships
Susan Dickstein, Ross D. Parke

Influence of Child, Parent, and Contextual Factors on Quality of Home Environment
Kristi Hanman, Tom Luster

Videotape Instruction and Feedback for Teen Mothers
Deborah Koniak-Griffin, Inese Verzemnieks

Early Family Origins of Boundary Violation Behavior in Families with Four-Year-Olds
Margaret Fish
Associations between Life Events, Social Support and Attachment
Lauren Heim, Sarah Mangelsdorf

2	LEEDS-GRENVILLE PUBLIC HEALTH UNIT	BROOKS, FAYE
12	EDUCATIONAL TESTING SERVICE	BROOKS-GUNN, J
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20, 22	UNIVERSITY OF PITTSBURGH	BROWN, FARNESTINE
14	PENNSYLVANIA STATE UNIVERSITY	BROWN, JANE
20, 22	UNIVERSITY OF PITTSBURGH	BROWN, JANE
14	UNIVERSITY OF PITTSBURGH	BROWNELL, CELIA
20, 22	UNIVERSITY OF PITTSBURGH	BROWNING, MARGARET
6	MICHAEL REESE HOSPITAL	BROWNING, MARGARET
29	PURDUE UNIVERSITY	BRYAN, YVONNE
12	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	BRYANT, DONNA M
42	UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER	BUCHSBAUM, HELEN
12	UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER	BUDA ABELA, MICHELLE
33	WAYNE STATE UNIVERSITY	BURGESS, STEWART
40	SAN DIEGO STATE UNIVERSITY	BURKE, KATHLEEN
26	UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO	BURNS, KATREEN
16	NORTHWESTERN UNIVERSITY	BURNS, WILLIAM
16, 23	NOVA UNIVERSITY	BURNS, WILLIAM
35	THE CHILDREN'S HOSPITAL	BURROWS, EMILY
24	FORDHAM UNIVERSITY	BUSCH-ROSSNAGEL, NANCY A
16	TUFTS UNIVERSITY	BUSHNELL, EMILY
31	UNIVERSITE PARIS V	BUSNEL, MARIE-CLAIRE
19	UNIVERSITY OF COLORADO HEALTH SCIENCES CTR	BUTTERFIELD, PERRY
7	UNIVERSITY OF STIRLING	BUTTERWORTH, GEORGE
1	I. W. KILLAM HOSPITAL FOR CHILDREN	BYRNE, JOSEPH
11, 24	UNIVERSITY OF KANSAS	CALDERA, YVONNE
9	CHILDREN'S DIAGNOSTIC AND TREATMENT CENTER	CALDERON, ANA E
8, 12	UNIVERSITY OF ARKANSAS AT LITTLE ROCK	CALDWELL, BETTYE M
29	UNIVERSITY OF MARYLAND	CALKINS, SUSAN
20	UNIVERSITY OF PITTSBURGH	CAMFIELD, E
2	PURDUE UNIVERSITY	CAMLI, OZLEM
2	ONTARIO MENTAL HEALTH FOUNDATION	CAMPBELL, DUGAL
24	HOSPITAL FOR SICK CHILDREN	CAMPBELL, KATHY
1, 25	UNIVERSITY OF PITTSBURGH	CAMPBELL, SUSAN
19, 26	UNIVERSITY OF CALIFORNIA AT BERKELEY	CAMPPOS, JOSEPH
30, 26	UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO	CAMPPOS, ROSEMARY GATES
25	ALBERT EINSTEIN COLLEGE OF MEDICINE	CAPOZZOLI, MARY
9	UNIVERSITY OF COLORADO	CARDON, LON
27	TEACHERS COLLEGE OF COLUMBIA UNIVERSITY	CARLSON, ELIZABETH A
30	WASHINGTON UNIVERSITY	CARLSON, VICKI
30	UNIVERSITY OF PITTSBURGH	CARRIGER, MICHAEL SEAN
14	UNIVERSITY OF ARKANSAS	CARROLL, K. A
41	LOUISIANA STATE MEDICAL SCHOOL	CARTER, SHEENA
39	UNIVERSITY OF RHODE ISLAND	CARUSO, DAVID
9, 33	UNIVERSIDADE FEDERAL DO SAO CARLOS	CARVALHO, MARGARIDA
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22	UNIVERSITY OF COLORADO	CASE, CATHERINE
40	CONSIGLIO NAZIONALE DELLE RICERCHE	CASELLI, MARIA CRISTINA
25	UNIVERSITY OF SOUTH CAROLINA	CASEY, BETTY JO
12	UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES	CASEY, PATRICK H
2	UNIVERSITY OF IOWA	CASEY, RITA
25, 27	PENNSYLVANIA STATE UNIVERSITY	CASSIDY, JUDE
10, 43	UTAH STATE UNIVERSITY	CASTO, GLEN
10	WILHELMINA CHILDREN'S HOSPITAL	CATS, B. P
5, 8	UNIVERSITY OF WESTERN ONTARIO	CHANCE, GRAHAM
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17	TUFTS UNIVERSITY	CHAZAN, RACHEL
39	NORTHWESTERN UNIVERSITY	CHETHICK, LEIGH
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10	VANDERBILT UNIVERSITY	CICCHETTI, DANTE
43	UNIVERSITY OF ROCHESTER	CINER, ELISE
2, 30, 39, 43	PENNSYLVANIA COLLEGE OF OPTOMETRY	CLARK, JANE
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 BERRY, K. L
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 BEST, CATHERINE
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 BIHUN, JOAN T
 BILODEAU, LYNDA
 BIRCH, LEANN
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 BLACKBURN, SUSAN
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 BLOOD, INGRID M
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 BOGER, ROBERT
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 BOND, LYNNE A
 BOOTH, CATHRYN L
 BORNSTEIN, MARC
 BORZA, MARGARET
 BOUDREAU, PAUL
 BOUKYDIS, ZACHARIAH
 BOWMAN, TOM
 BOYSSON-BARDIES, BENEDICTE DE
 BRADLEY, ROBERT
 BRADSHAW, DONNA
 BRADY, KATHLEEN L
 BRAULT, MATHILDE
 BRAUNGART, JULIA
 BRAZELTON, T. BERRY
 BREGMAN, JOANNE
 BREINLINGER, KAREN
 BRETHERTON, INGE
 BRETON, JACQUES
 BREWSTER, MARISA
 BRIDGES, LISA J
 BRINCKERHOFF, CAROL B
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UNIVERSITY OF ILLINOIS AT CHICAGO	10
SHAWBRIDGE YOUTH CENTRES	30
UNIVERSITY OF MINNESOTA	4
NATIONAL INSTITUTE FOR NEUROLOGICAL DISORDERS AND STROKE	17

8h00-9h50 (cont'd)

Poster Session B1

Alfred Rouleau AB

- B1.09 Intervention with Haitian Entrant Women and Their Infants by Indigenous Workers
 Susan Widmayer, Linda M. Peterson, Mary Larner, Ana E. Calderon, Katherine L. Bacon
- B1.10 Clarifying and Refining Video Replay Methodology: Improving Self-Efficacy Via Self-Modeling
 Andrea Davis
- B1.11 Improving Social Interaction between Low SES Teenage Mothers and Their At-Risk Infants in Brazil
 Leila Nunes, Mary Balthazar, Margarida Carvalho, Ida Mara Freire, Claudia Taborda, Regina Sisdelli, Neucideia Colnago

Cognition

- B1.13 Longitudinal Structure of Infant Cognition
 Lon Cardon, David Fulker
- B1.14 Giftedness: New Directions in the Study of Stability ✓
 Barbara Louis
- B1.15 Cognitive/Perceptual Integration of Three Skills at 9 Months
 Chris Lalonde, Janet Werker
- B1.16 Rett Syndrome: An Exploratory Study
 John Watson, Richard Umansky, Caroline Johnson
- B1.17 On What Basis Do Infants Recognize Emotional Expressions?
 Roberta Kestenbaum, Charles Nelson
- B1.18 Prediction of Assessment Scores from Infants' Emotional Expressions to Stimuli ✓
 Andrea Guillory, Patricia Self
- B1.19 Teasing in Infancy: Playing with Others' Intentions
 Vasudevi Reddy
- B1.20 Development of Mastery Motivation in Deaf and Hearing Infants ✓
 Robert MacTurk, Victoria Trimm, Donna Platt
- B1.21 Learning to Choose: An Examination of the Structure of Early Decision-Making Situations
 Carol Harding, Jeanne Moisan
- B1.22 Conceptual Problem Solving at Age 2 Years
 Debra Vella, Suzanne Zeedyk
- B1.23 Infant Response to Novelty: An Examination of Three Domains
 Pamela Wallace, Henry Ricciuti
- B1.24 Novelty Preference Testing and Visual Habituation Procedures: Reliabilities of and Relationships between Measures in 3-Month-Old Infants
 Rachel Cooper
- B1.25 Infant Perception of Concrete and Abstract Identity/Difference Relationships
 Donald Tyrrell, Lori Stauffer, Linda Snowman
- B1.26 Infant Visual Processing: Comparing Predictor Variables
 Stephanie Stilson, Jill Reich, Deborah Holmes
- B1.27 Early Conceptions of Object Motion: Continuity and Solidity
 Elizabeth Spelke, Karen Breinlinger

FRIDAY APRIL 20

Poster Session B1
Alfred Rouleau AB

- B1.28 The Effect of a Sensory Stimulation Program on the Occurrence of Bradycardia and Apnea in Healthy VLBW Infants
Paul Heiders, B. P. Cats, J. Van Der Net
- B1.29 Home Visiting and Early Intervention: Results of a Survey of U.S. Programs
Richard Roberts, Barbara Wasik
- B1.30 Effects of Early Sensorimotor Intervention for Medically Fragile Infants
Lee Huntington, Glendon Casto, Conway Saylor
- B1.31 Using the Neonatal Behavioral Assessment Scale (NBAS) with High and Low Risk Families
Marjorie Beeghly, J. Kevin Nugent, Kathleen Flannery, David Barrett, Miriam Pitim
- B1.32 Mothers and Their Developmentally Delayed Children: Behavioural Changes with Treatment
Phillip R. Zelazo, Richard Kearsley, Meagan Smith, Cheryl-Lynn Rogers
- B1.33 Relationship between Maternal Adaptations to a Handicapped Child and the Child's Development
Richard Brinker, Mary Howell, Sharon Grant
- B1.34 Comprehensive Prenatal Care and Birthweight: Preventing Prematurity or Promoting Fetal Growth?
F. Joseph McLaughlin, William Altemeyer, Kathy B. Sherod, Myra J. Christensen
- B1.35 The Observation of Interpersonal Regulation during Mother-Child Interaction
Jacques Naud, Marta Manikowska
- B1.36 Effects of Durational Components of Cries on Adult Perceptions
Phillip Sanford Zeskind, Laura Hartford, Timothy Marshall, Adam Wilhite
- B1.37 Infant Affect and Home Environment
Tom Luster, Robert Boger, Kristi Hannan
- B1.38 Facial and Vocal Emotional Expressiveness in Fullterm and Preterm Children
Carol Malatesta, Johanna Rich Tesman, Beth Shepard
- B1.39 Toddler Smile Characteristics: Type and Context Similarities, Sex and Age Differences
Susan Holt
- B1.40 Variations in the Acoustic and Contextual Features of Infant Laughter
Eva Nwokah, Patricia Davies
- B1.41 Individual Differences in Physical and Affective Functioning in Infancy
Allison Rosenberg, Denise Haynie, Laura Scaramella, Michael E. Lamb, Stephen Porges
- B1.42 Emotional Reactions to Various Contexts at 2 1/2 and 5 Months of Age
Louise Cossette, Andrée Pomerleau, Gérard Malcuit, Mathilde Brault

AARON, NANCY

ABRAMSON, LAUREN

ACEBO, CHRISTINE

ADAMS, CAROLINE

ADAMS, RUSSELL

ADAMSON, KARLIS

ADOLPH, KAREN

AINSWORTH, MARY D S

AL-NAQUIB, NAWAR

ALESSANDRI, STEVEN

ALLEN, A. BRIAN

ALLEN, RANDY

ALS, HEIDELISE

ALTMAYER, WILLIAM

ALTMAN, SUSANNAH

AMAN, CHRIS

AMBRROSE, STEPHEN

ANDERS, THOMAS F

ANDERSON, CHRISTINE

ANDERSON, GENE CRANSTON

ANDERSON, SAMUEL W

ANDERSSON, BENGT-ERIK

ANISFELD, MOSHE

ARCUS, DOREEN

AREHART, DENISE

ARENA, ROSEMARY

ARTERBERRY, MARTHA

ASHMEAD, DANIEL

ASLIN, RICHARD

ATKINSON, LESLIE

AVIEZER, ORA

AYDELOTT, JENNIFER

AYDELOTT, LYDIA

BACON, KATHERINE L

BAHRICK, LORRAINE

BALLARGEON, RENEE

BALLIE, JANET

BALDWIN, DARE

BALTAZAR, MARY

BARAS, REBECCA

BAR, KIM

BARBAR, KATHRYN

BARNETT, DOUGLAS

BARON, CHANTAL

BARR, RONALD

BARRETT, MARNI

BARRETT, HELENE

BARRETT, DAVID

BARRETT, KAREN C

BARTLETT, GLEN S

BATES, ELIZABETH

BATES, JOHN E

BAUER, PATRICIA

BAWTER, ABIGAIL

BEAULIEU, MARYNA

BEAUMONT, SHERRY

BECKER, PATRICIA

BECKMANN, CLAUDIA ANDERSON

BECKWITH, LILA

BECKWITH, RICHARD

BEDARD, ROXANNE

29	UNIVERSITY OF MARYLAND
30	BOSTON UNIVERSITY
15, 19	UNIVERSITY OF CONNECTICUT
23	UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE
40	MEMORIAL UNIVERSITY
5	UNIVERSITY OF PUERTO RICO
3	EMORY UNIVERSITY
17	JOHNS HOPKINS UNIVERSITY
26	PRINCE SALMAN HOSPITAL
26	MEDICAL COLLEGE OF PENNSYLVANIA
11	LEEDS-GREENVILLE PUBLIC HEALTH UNIT
2	BARTON COUNTY COLLEGE
22	HARVARD MEDICAL SCHOOL
44	VANDERBILT UNIVERSITY
10	NEW YORK HOSPITAL-CORNELL MEDICAL CENTER
27	UNIVERSITY OF DENVER
19	CHILDREN'S INSTITUTE INTERNATIONAL
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44	LOYOLA UNIVERSITY OF CHICAGO
4	UNIVERSITY OF FLORIDA
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41	HARVARD UNIVERSITY
21	UNIVERSITY OF DENVER
3	SETON HALL UNIVERSITY
30	GETTYSBURG COLLEGE
3	VANDERBILT UNIVERSITY
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32, 37	SURREY PLACE CENTRE
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1, 27	WELLESLEY COLLEGE
26	UNIVERSITY OF NORTH CAROLINA
4, 40	CHILDREN'S DIAGNOSTIC AND TREATMENT CENTER
9	FLORIDA INTERNATIONAL UNIVERSITY
34	UNIVERSITY OF ILLINOIS
7, 21, 24	MC GILL UNIVERSITY
36	UNIVERSITY OF BRITISH COLUMBIA
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9, 33	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT
14	EMORY UNIVERSITY
4, 36	UNIVERSITY OF WASHINGTON
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30	HOSPITAL STE-JUSTINE
8	BARON, CHANTAL
19	MONTREAL CHILDREN'S HOSPITAL
42	MCMMASTER UNIVERSITY/CHEDOKE-MCMMASTER HOSPITALS
19	UNIVERSITE PARIS V
10	THE CHILDREN'S HOSPITAL
10	COLORADO STATE UNIVERSITY
11	PRACTISING PEDIATRICIAN
41	UNIVERSITY OF CALIFORNIA AT SAN DIEGO
6, 40	INDIANA UNIVERSITY
24	UNIVERSITY OF MINNESOTA
21	VANDERBILT UNIVERSITY
30	UNIVERSITE DE MONTREAL
8	UNIVERSITY OF WATERLOO
5	UNIVERSITY OF WISCONSIN
33	UNIVERSITY OF TENNESSEE COLLEGE OF NURSING
8, 20	UNIVERSITY OF CALIFORNIA AT LOS ANGELES
2, 43	PRINCETON UNIVERSITY
31	MONTREAL CHILDREN'S HOSPITAL
34	

Poster Session B1

Alfred Rouleau AB

- B1.43 Stability and Change in Infant Emotion Expressions ✓
Steven Alessandri, Margaret W. Sullivan
- B1.44 Emotion Display in Two-Year-Olds during Mishaps ✓
Pamela Cole, Carolyn Zahn-Waxler, Karen C. Barrett
- B1.45 Assessment of Infant Irritability through Parental Report ✓
Cherie O'Boyle, Mary K. Rothbart
- B1.46 Baby FACS Vs Max: The Case for an Empirical Coding System
Harriet Oster
- B1.47 What Makes a Baby Smile?
Judy Reilly, Joan Stiles
- B1.58 Gender-Related Differences in the Estimation of Infant Cry Sequences
Gottfried Wiedenmann, Kerstin Teske, Dietmar Todt

Social Development in Daycare

- B1.48 Interaction in Creche: The Devising of a Check-list
Adriana Lis, Paola Venuti
- B1.49 Disorganized Infants in Daycare
Marius Van IJzendoorn
- B1.50 Quality of Infants' Attachments to Professional Caregivers: Relation to Infant-Parent Attachment and Daycare Characteristics
Frits A. Goossens, Marius Van IJzendoorn
- B1.51 Does Daycare Care Produce Children Who Are More Aggressive and Less Socially Competent?
Frits A. Goossens, G. Ottenhoff, W. Koops
- B1.52 Facilitating Toddler Prosocial Development: Do Teachers Use Questions?
Donna Wittmer, Alice Honig
- B1.53 Toddlers' Security of Attachment to Their Daycare Providers: Stability and Relation to Social Competence with Peers
Claire Hamilton
- B1.54 Attachment to Mother and Father, Family Characteristics, and the Role of Father in Families ✓
Yvonne Caldera
- B1.55 Attention to Language in Daycare Attending Children: A Mediating Factor in the Developmental Effects of Otitis Media
Lynne Feagans, Stephanie McGhee, Elizabeth Kipp, Ingrid M. Blood
- B1.56 Patterns of Responsiveness to Infants in Group Care ✓
Arminta Jacobson
- B1.57 Infants' Cognitive Development during the First Five Months in Daycare Centers
Ingrid Harsman

Symposium

Argenteuil

F6 Infant Categorization: The Search for Processes

Chair: Diane Poulin-Dubois

Infant Categorization: Detection of Correlations Among Feature Categories
Barbara Younger

How Not Knowing "How" Keeps Infants from Demonstrating What They Know
 Larry Fenson, Suzanne Zeedyk, Debra Vella

Parts and Early Object Concepts
 Diane Poulin-Dubois, Mary E. Sissons, Ilana Frank

Discussant: Steven Reznick

Symposium
F7 Early and Extensive Maternal Employment/Child Care: The National Longitudinal Study of Youth
Grand Salon B

Chair: Jay Belsky

Moderators of Maternal Employment Effects on Children's Adjustment
 Kathleen McCartney, Saul Rosenthal

Early Maternal Employment and School-Aged Children's Development
 Deborah Lowe Vandell, Janaki Ramanan

The Ecology of Early and Extended Maternal Employment/Childcare among 4-6-Year-Olds
 David Eggebeen

Child Care and Adjustment in 4-6-Year-Olds
 Jay Belsky

Symposium
F8 The Infant Health and Development Program (IHDP) for Low Birth Weight, Premature Infants
Grand Salon A

Chair: Ruth Gross

The Primary Outcomes at Age Three
 Ruth Gross

The Effects of Early Intervention in the IHDP on Maternal Interactive Behavior
 Donna Spiker, Joan Ferguson

Was the Home Environment Enhanced?
 Patrick H. Casey, Robert Bradley, Bettye M. Caldwell

Were the Mothers' Lives Affected?
 J Brooks-Gunn, Marie McCormick, Sam Shapiro

IHDP: Program Elements, Participation and Child Outcomes
 Craig T. Ramey, Donna M. Bryant, Barbara H. Wasik, Joseph J. Sparling, Lisa M. Lavange, Kaye H. Fendt

Discussant: Arnold Sameroff

Symposium
F9 Psychology of Pain and Coping in Human Newborns
Grand Salon C

Chair: Elliott Blass

Opioid and Nonopioid Mediation of Pain and Stress in Newborns
 Elliott Blass, Barbara A. Smith

Responses to Mother-Infant Separation and Their Biological Mediators
 Cynthia Kuhn

Behavioral and Adrenocortical Responses to Pain in the Newborn
 Megan Gunnar

Symposium**Argenteuil****DS12 Disorders of Behavior Regulation in Infants: Do They Exist?****Chair: Klaus Minde**Neurobehavioral Regulation Disorder of Prematurity
Heidelise Als, Frank H. Duffy, Gloria B. McAnultyAre Sleep Disturbances in Young Children a Sign of Behavioral Dysregulation?
Some Recent Findings

Klaus Minde, Karen Popiel, N. Leos, S. Falkner

Development of a Scale Measuring Biological and Psychological Sleep Disorders
Kevin Parker, Karen PopielFalling Asleep and Waking Up during the Night: Developmental Patterns
Thomas F. Anders

Discussant: Marian Sigman

Effects of Local Anesthesia on Pain in Neonates
Fran Porter, J. Philip Miller

Discussant: Ronald Barr

Paper Session**Auteuil AB****F10 Intersensory Perception****Chair: Michael J. Welss**Developmental Differences in the Effect of Intersensory Learning on Auditory/
Visual Matching

David Lewkowicz

Developmental Intersensory Interference: Concurrent Water-Bed Stimulation
Interferes with Auditory Learning in the Premature Mallard Duck Embryo

Gilbert Gottlieb, Peter Radell

Infants' Perception of Auditory-Visual Distance Relations

Jeffrey Pickens

Developmental Changes in Infants' Coordination of Auditory-Visual Depth Infor-
mation

Barbara Morrongiello, Kimberley Fenwick

Symposium**Picardie AB****F11 Central and Peripheral Influences on Early Motor Development****Chair: Phillip R. Zelazo**Development and the Reconstruction of the Infant
Esther ThelenHigher Order Influences on Stepping and Walking
Phillip R. ZelazoDevelopment of Central Control: Neuroanatomical and Clinical Evidence
Ferenc Katona**Poster Session B2****Alfred Rouleau AB****Parent-Child Interaction**

- B2.01 Infant Temperament and Coordinated Interpersonal Timing
Stanley Feldstein, Idalee DiGregorio, Cynthia L. Crown, Michael D. Jasnow
- B2.02 Temporal Patterns of Maternal Interactive Behavior and Their Relation with Infants' Behaviors
Sueko Toda
- B2.03 Social Conditions Necessary for Contingency Perception and Control in Early Mother-Infant Interaction
Doug Symons, Greg Moran
- B2.04 Sampling Interval Affects Time-Series Regression Estimates of Mother-Infant Influence
Jeffrey Cohn, Beatrice Beebe

- B2.05 Sequential Organization of Mother-Twin Infant Interaction
Jeanne Karns
- B2.06 Infant-Mother Face-to-Face Interaction: Maternal Predictors of Infant Avoidance
Sara Gable, Russell A. Isabella
- B2.07 On Some Reasonable Assumptions about Cry-Initiated Interactions
Kirsten DeConti, Gwen E. Gustafson
- B2.08 The Role of Temperament in Mother-Child Problem Solving
France Gravel, Pierre Lapointe
- B2.09 Maternal Guidance of Object Interaction
Delisa West
- B2.10 Mother-Infant Feeding Interactions with Cleft Lip/Palate Infants
Barbara Myers, Mary Jo Epperson
- B2.11 Assessing Behavioral Rhythms Observed during Mother-Infant Interaction
Brian Healy
- B2.12 Time-Sampling and Scan-Sampling: Two Methods of Observational Data Collection Compared
Pamela Ludemann, Joseph Tal, Rebecca Baras, Kathy Painter, Myrna Fivel
- B2.13 Does Breast Feeding Protect the Hypothyroid Infant Diagnosed by Newborn Screening?
Joanne Rovet, Donna L. Sorbara
- Play**
- B2.14 Toddler Play in Relation to Social and Cognitive Competence
Lori Roggman, K. A. Carroll, E. A. Pippin, D. E. McCool
- B2.15 Stylistic Variables in Symbolic Play
Wallace Dixon, Cecilia Shore
- B2.16 The Symbolic Play of American and Mexican Toddlers with Mothers, Older Siblings and Peers
Jo Ann Farver
- B2.17 Communicating Play: An Analysis of Young American and Mexican Children's Play Dialogues
Jo Ann Farver
- B2.18 Game-Playing Skills in 6- to 24-Month-olds
Marcelle Ricard, Tibe Flanders, Thérèse Guin Décarie
- Family Relationships, Temperament and Socio-Emotional Development**
- B2.19 Parenthood and the Difficult Child
Lourdes Portales, Stephen W. Forges, Stanley I. Greenspan
- B2.20 Nausea in Early Pregnancy and Later Maternal Attitudes and Behavior
Lois Muir
- B2.21 Family Relations during Infancy: Predictions to Children's Socio-Emotional Development Four Years Later
Wendy Goldberg, M. Ann Easterbrooks
- B2.22 Family Conversations about the Self with 36-Month-Olds: Links with Later Self Competence
Jane Brown, Judy Dunn, Clare Stocker

Symposium

- DS9 Parenting Special Needs Infants: The Descriptive Utility of the Parent/Caregiver Involvement Scale for Intervention Projects**
Chair: Dale Farran
- Interactions of Parents and FDC Providers with Infants and Toddlers with Special Needs
Penny L. Deiner
- Using the PCIS to Assess Mothers' Responsibility
Ellen W. Wilfong
- Handicapped Child Characteristics and Maternal Involvement
Gail S. Huntington
- An Exploratory Analysis of the Parent/Caregiver Involvement Scale
Patricia M. Blasco, Dale C. Farran, Gail S. Huntington
- P/CIS Prediction of Intervention Success for IVH Babies
Conway Saylor, Glen Casto
- Discussant: Deborah Coates

Symposium

DS10 Language and Communication in Social Interaction

- Chair: Helga Felder**
- Mother-Toddler Discourse: Towards an Ethnolinguistic Analysis of Language Development
Teresa Blicharski, Helga Felder
- Shared Definitions of Communicative Activity in Early Mother-Infant Interaction
Barbara Pan, Catherine E. Snow
- The Relation of Children's Single-Word Utterances to the Input
Anal Ninio
- Communication between Mothers and Children
Ina C. Uzgiris, Jan C. Kruper
- Discussant: Helga Felder

Symposium

DS11 Home Environments and Parenting Behaviors in Drug and Alcohol Abusing Families

- Chair: Carol Rodning**
- The Influence of Mother-Infant Interaction on Attachment Behavior of Infants Exposed to Alcohol Prenatally
Mary J. O'Connor, Connie Kasari, Marian Sigman
- Interaction between Drug-Using Mothers and Their Toddlers
Sydney L. Hans, Victor J. Bernstein, Linda G. Henson
- Caregiver Interactional Behaviors at Home with Infants Exposed in Utero to PCP
Carol Rodning, Lella Beckwith, Judy Howard
- Discussant: Dante Cicchetti

Poster Session D1

Alfred Rouleau AB

Early Cognitive Assessment

- D1.32 The Relationship between Performance on the Bayley Scales of Infant Development-Psychomotor Scale in Infancy to the McCarthy Scales of Children's Abilities Motor Scale at 5 Years
Janice Miller
- D1.33 The Relationship Between the Kohen-Raz Subscales of the Bayley and the McCarthy Scales at Ages 4 and 5
Linda Siegel
- D1.34 Preschool Performance of Very Low Birth Weight, High Birth Weight and Full Term Children: Follow Up at 5 Years
Maru Barrera, Kathleen Kitching
- D1.35 The Bayley Scales as a Predictor of the Development of Low Birthweight Infants
Ann Robson

10h00-11h50

Symposium

Grand Salon B

DS7 Conflict in Infancy and Early Childhood

Chair: Laurence Hirshberg

Infants' Response to Conflicting Parental Emotional Signals
Laurence Hirshberg

Moral Dilemmas at Age Three
Helen Buchsbaum

Conflict and Attachment: The Experience of Disorganized/Controlling Children and Their Mothers

Judith Solomon, Carol George

Discussants: Robert Emde, Daniel Stern

Symposium

Grand Salon B

DS8 Infancy Research: Implications for Social Policy

Chair: Thomas Berry Brazelton

How and When Infancy Research Influences Public Policy for Infants
Sally Provence

Infant Daycare: Research to Policy and Back
Peggy Pizzo

The Development of Comprehensive Programs for Infants, Toddlers and Their Families: Research to Policy and Back

Eleanor S. Szanton

Discussant: Thomas Berry Brazelton

Poster Session B2

Alfred Rouleau AB

- B2.23 Within and Across-Parent Relations between Parent Reports of Infant Temperament and Strange Situation Attachment Classifications
Sherri Addis Palmer, Lisa J. Bridges
- B2.24 Close Relationships, Maternal Well-Being and Infant Difficulty: An Expectancy Model
Mary J. Levitt, Sherrilyn Coffman
- B2.25 Correlates and Predictors of Mastery Motivation: Relations to Mother-Child Problem-Solving, Temperament, Attachment and Home Environment
Kim Hron-Stewart, Gretchen B. Lefever, Dan Weintraub
- B2.26 Maternal Emotional Availability in Two Risk Groups
Della Hann, Kathryn Barnard, Gwen Leonard, Joy Osofsky

Context of Language Acquisition

- B2.27 Parental Language and Language Development in Children with Otitis Media
Ina Wallace, Ellen Ganon, Marlene Spector, Judith Gravel
- B2.28 Language Delay in Infants Born to Adolescent Mothers
Anne McDonald Culp, Rex Culp, Suzette Friese
- B2.29 Language Acquisition in Bilingual Families
Naomi Goodz, Marie-Claire Légaré, Lynda Bilodeau
- B2.30 The Association between Toddlers' Language Comprehension and Maternal Behavioral Standards
Sandra Kaler, J. Heidi Gralinski
- B2.31 Do Later-Born Children Delay in Early Language Development?
Yuriko Oshima-Takane, Jeffrey Derevensky
- B2.32 What a Bedtime Story May Mean: Effects of Literacy Exposure and Maternal Reading Style on Children's Oral Language Ability
Barbara Debaryshe

High Risk: Psychophysiological Studies

- B2.33 Cry Characteristics and Social Support in Preterm Infants ✓
Zachariah Boukydis ✓
- B2.34 Early State Characteristics as Predictors of Later Developmental Dysfunction in Premature Infants
Mary Whitney, Christine Acebo
- B2.35 Relationships among Gestational Age, Event-Related Potentials and Bayley Scores
David G. Thomas, C. Donel Crow, Janet L. Shucard, David W. Shucard
- B2.36 Effects of Cycled Light on Activity State and Cardiorespiratory Function in Preterm Infants
Susan Blackburn, Dorothy Patteson
- B2.37 Relation between Feeding Performance and Temperature in Premature Infants ✓
Nancy Gill, Marylou Behnke, Michael Conlon, Gene Anderson

Exposure to Toxins and Maternal Substance Abuse

- B2.38 Effects of Perinatal Cocaine Exposure on Neonatal Behavior and Withdrawal Symptoms
Lisa Eisen
- B2.39 Prenatal Phenothiazine Exposure and Neonatal Behavior
Claire Coles, Kathleen Platzman, Mark James, Sally Herbert
- B2.40 Intrauterine Exposure to Toxins and Cognitive Outcomes
John Worobey, David Thomas
- B2.41 Neonatal Behavior in Cocaine-Exposed Infants and Maternal Depression
Nanci Stewart, Fonda Davis Eyster, Marylou Behnke, Michael Conlon
- B2.42 The Assessment of Early Relationship Dysfunction in Cocaine Abusing Mothers and Their Infants
Kayreen Burns, Leigh Chethick, William Burns, Roseanne Clark

Spatial Cognition

- B2.43 The Dual Orientation Hypothesis and Young Children's Understanding of Models
Judy Deloache
- B2.44 Children's Analysis of Spatial Patterns
Wendy Tada, Joan Stiles
- B2.45 Encoding of Spatial Context Cues in Recognition Memory with 6-Month-Old Infants
Robert A. Haaf, Brenda Lundy, Kathy Bennett, Tim Loboschewski, Gary Levy
- B2.46 Infants' Spatial Coding Strategies in a Locomotor Search Task
Emily Bushnell, Beryl Mckenzie
- B2.47 A Multivariate Look at the A-not-B Error
Darla MacLean
- B2.48 Spatial Representation of Objects in the Young Blind Child
Barbara Landau

Infant Attention and Social Behaviour

- B2.49 Infant Attention and Social Referencing
Tedra Walden, Katherine Johnson
- B2.50 Social Referencing during Imitation
Cristina Ramirez, Ina C. Uzgiris
- B2.51 Locomotion Experience, Familiarity and Infant Social Referencing
Joan McComas, Jeff Field
- B2.52 Facial Diversity and Infant Preferences for Attractive Faces
Judith Langlois, Jean M. Ritter, Lori A. Roggman, Lesley S. Vaughn
- B2.53 The Effect of Prematurity on Infant's Visual Regard of Mother's and Stranger's Face
Diane Wille, Judy B. Geswein

Poster Session D1

Alfred Rouleau AB

Effects of Parenting

- D1.15 Predicting Children's Problem Behaviors from the Content of Maternal Demands
Leon Kuczynski, Grazyna Kochanska
- D1.16 Dimensions of Parents' Gender Identity: Correlates of Parents' Behavior in Parent-Toddler Interaction
Kathleen Matula, Nancy Hazen
- D1.17 Predicting Mental Development at Two Years from Early Mother-Infant Interaction
Susan Crockerberg
- D1.18 Japanese and American Differences in Toddler Autonomy
Daniel Messinger, Dan Freedman
- D1.19 Impact of 1000-hz Bandwidth Manipulations on Infant Cry Aversiveness Ratings
Jerry W. Cleland, Mark A. Stellmack, Raymond H. Dye, Jr.
- D1.20 Predicting Behavioral Inhibition at 9 Months from 4 Month Motor Arousal, Cry and Heart Rate
Doreen Arcus, Nancy Sridman, Jerome Kagan
- D1.21 Moder, Madre, Mother: The Maternal Role in Sweden, Italy, and the US
Rebecca New, Amy L. Richman, Barbara Welles-Nystrom
- D1.22 Japanese and American Moms: Expectations for Behavior
Heidi Galinski, Nobumoto Tajima, Claire B. Kopp, Keiko Kashwagi
- D1.23 Free-play Interaction Behaviors of Adolescent Mothers and Their Six-month-old Infants as Predictors of Infant Affective Displays at 13 Months
Sheena Carter, Anne M. Culp
- D1.24 The Impact of Acculturation on Parenting Beliefs in Mexican-Americans
Marlene Zepeda, Michael Espinosa
- D1.25 Clarifying the Role of Maternal Self-confidence in Interactional Competence
Andrea Davis
- D1.26 Effect of the Parental Intelligence on the Mental Development of the Children
Jeno Ranschburg, Istvan Horvath
- D1.27 Parental Didactics in Play with Toddlers: Being Sensitive to Cognitive Needs
Andre Vyt
- D1.28 Radical Fathering: Infant Caretaking in Swedish and American Men
Barbara Welles-Nystrom

Behavioral Factors in SIDS

- D1.29 Behavioral Risk Factors Predict Crib Death
Judy Rosenblith
- D1.31 Results from the NICHD SIDS Cooperative Epidemiological Study
Howard Hoffman, Glen S. Bartlett, Laura Hillman, William C. Orr

Poster Session D1

Alfred Rouleau AB

Language Assessment

- D1.01 Parental Report as a Language Assessment Tool for Infants and Toddlers
Donna Thal, Philip Dale
- D1.02 A Cross Linguistic Study of Early Lexical Development Using Parental Report
Elizabeth Bates, Maria Cristina Caselli, Paola Casadio
- D1.03 Norms for the MacArthur Communicative Development Inventories
Larry Fenson, Philip Dale, Steve Reznick, Jeffrey Hartung, Stewart Burgess
- D1.04 Adaptation of Parental Report Language Inventories for Spanish-Speaking Infants and Toddlers
Donna Jackson Maldonado, Virginia Marchman, Donna Thal, Elizabeth Bates
- D1.05 A Paradigm for the Assessment of Sociocommunicative Competence in Six-to-Ten-Month-Old Infants
Lydia Aydtlett

Visual Perception

- D1.06 Effects of Luminance on Infants' Blink Responses to Optical Information for Collision
Jose Nafiez, Albert Yonas
- D1.07 Shape Recognition of Light-Point Tracings by Infants
Beryl McKenzie, H. Skouteris
- D1.08 Stereopsis Assessment Using a Portable Operant Preferential Looking Apparatus
Eileen Schanel-Klitsch, Elise B. Ciner, Randall McPherran, Lynn Jablonowski
- D1.09 Preferences for Orientation within Complex Patterns in Very Young Human Infants
Robert Freedland
- D1.10 Using Color Cards to Assess the Development of Color Vision
Mary Courage, Russell Adams, Michele Mercer
- D1.11 The Development of Temporal and Nasal Detection as Measured by Static Perimetry with a 6 Degree Light
Terri Lewis, Daphne Maurer
- D1.12 The Origins of Visual Competence: Visual Perception at Birth and Later
Alan Slater
- D1.13 The Role of Facial Characteristics in Neonate Gender Discrimination from Photographs
Jacob Gewirtz, Ruth Weber, Marta Pelaez-Nogueras
- D1.36 Haptic Perception of Weight and Intermodal Transfer in 2- and 4-Month-Old Infants
Sylvie Milhet
- D1.37 4.5-Month-Old Infants Use Knowledge about Support to Segregate Objects
Amy Needham

Poster Session B2

Alfred Rouleau AB

- B2.54 Infant State and Feeding Method
Teresa Pinilla, Leann Birch, Lois Steinberg, Mary Frances Picciano, Nancy Goff
- B2.55 Infants' Knowledge of Self and Other
Sandra Pipp, Seema Kulkarni, Carol Foltz

12h00-13h30

Invited Film Hour

Picardie AB

Everyone Needs a Secure Base: An Historical and Cinematographic Tribute to Mary D. S. Ainsworth

Chair: Robert Marvin

- Film: Tribute to Mary D. S. Ainsworth
Robert Marvin, Inge Bretherton
- History: Mary Main
- Guest of Honor: Mary D. S. Ainsworth

Structured Conversation Session

Argenteuil

Federal Granting Agencies: Research Priorities

Chair: Sarah Friedman

- Participants: Sarah Friedman, NICHD; Sarah H. Broman, NINDS; Mary Ellen Oliveri, NIMH

13h30-15h45

Invited Symposium

Grand Salon B

Cocaine Exposure: Neurofunctional Consequences for the Fetus and Infant

Chair: Bernard Karmel

- Prenatal Diagnosis of Structural and Neurobehavioral Abnormalities
Karen O'Donnell, Roderick F. Hume, Cathi L. Stanger, Jeannine Gingras
- Neurobehavioral Organization and Integration of Attention and Arousal in NICU Neonates
Judith Gardner, Bernard Karmel, Catherine L. Magnano
- Diminished Habituation and Vagal Activity in Cocaine Exposed Preterm Neonates
Tiffany M. Field
- Second and Third Year Follow-Up Studies
Daniel Griffith, Ira J. Chasnoff, Catherin Freier
- Mechanisms of Injury to the CNS
Jeannine Gingras
- Medical, Social and Policy Implications
Ira Chasnoff
- Discussants: Jeannine Gingras, Ira Chasnoff

Invited Symposium**The Transition to Speech: Interpretation from a Dynamic Systems****Chair: Lorraine McCune**

Can Developmental Prespeech Periods Be Identified in Normal Infants?

Rachel E. Stark

Motor Control and the Evolution of Phonological Patterns: An Analysis of Syllables

Used at the Onset to Speech

Martlyn Vihtman

Material Evidence of Infant Selection from the Target Language: A Cross-Linguistic

Phonetic Study

Bénédicte De Boysson-Bardies

Integration within and between Systems in the Early Transition to Speech

Lorraine McCune

Discussant: Peter MacNeilage

Invited Symposium**Grand Salon C****Determinants of Gender Differences in Peer Relations****Chair: Fred Strayer**

The Social Ecology of Toddler Play Groups and the Origins of Gender Discrimina-

tion

Fred Strayer

Is Gender Segregation in Play Modified by Friendship Relationships?

Carolee Howes

A Longitudinal Study of Gender Segregation: Infancy to Preschool

Beverly I. Fagot

Gender Differences in Four-Year-Olds

Robert Hinde

Discussant: Eleanor E. Maccoby

16400-17450

Grand Salon C**Symposium****F12****Great Expectations: How Infants Anticipate the Future****Chair: Keith Berg**

The Formation of Visual Expectations in Early Infancy

Marshall Haith

"Here It Comes", "Where Was It" and "What Happened": 7-Month-Olds Demon-

strate Understanding the Predictability of an Event

Robert L. Donohue, Keith Berg

Anticipation in Visual Vigilance

Holly Ruff

Infant Crawling: The Formation of Expectations

Janette B. Benson

Symposium**DS4****Attachment Security in Social Risk Infants: Preschool and School-****Age Sequelae****Chair: Susan Spieker**

Relating Insecure Attachment to Preschool Indices of Anxious Withdrawal and

Insecurity

Cathryn Booth, Linda Rose Krasnor, Kenneth H. Rubin, Kay Perman

The Relationship of Infant Attachment to Preschool Language Competencies

Colleen E. Morisset

Developmental Adaptation and Social Risk

M. Ann Easterbrooks, Karlen Lyons-Ruth, Cheryl Lynn Davidson, Rachel Chazan

Discussant: Dante Cicchetti

Picardie AB**DS5****Daycare and Development****Chair: Thérèse Bourfard-Bouchard**

On the Association Between Daycare and Attachment

Michael Lamb, Kathleen J. Sternberg, Margarita Protopridis

The Effects of Infant Daycare on Children's Social Behavior: An Examination of

Within-Group Differences

Brenda Volling, Julia Braungart, Juliet Nuss, Lynne Feagans

Relationship of Mother-Infant Interaction and Cognitive Functioning in Daycare

and Non-Daycare Samples

David Caruso

Curvilinear Relationship between Maternal Work Hours and Infant Bayley at One

Year

Annette Rother, Joseph Jaffe

Symposium**DS6****Before Infancy - Pregnancy, Pre-Natal Care and Birth Outcomes: The****Autuili AB****Research and Policy Interface****Chair: Deborah Coates**

On the Need for Psychological Research on Prenatal Influences on Perinatal

Outcomes

F. Joseph McLaughlin

Prenatal Correlates of Prenatal and Infant Development

Ura Jean Oymade

Mothers' Attitudes during Pregnancy: An Early Window on Infant Health and

Development

Barbara J. Tinsley

Before Infancy - Pregnancy, Prenatal Care and Birth Outcomes: Research and Policy

Interface

Milton Kotlichuck

8h30-9h50

Symposium

Grand Salon B

DS1 Emotion Regulation in Infancy

Chair: Megan Gunnar

Relations between Regulatory Behavior, Affect and Physiological Responses to Stressful Events

Megan Gunnar

Stability of Regulatory Behaviors

Edward Z. Tronick, Katherine M. Weinberg

Orienting and Soothing in Infancy

Mary K. Rothbart, Lily Halsted, Michael Posner

Language, Toddlers, and Emotion Regulation

Claire Kopp

Symposium

Grand Salon C

DS2 Posture and Action in Infancy

Chair: Philippe Rochat

Sitting and Reaching in Infancy

Philippe Rochat, Stefan Senders

Posture and the Development of Social Action

Alan Fogel, Hui Chin Hsu, Jae Young Dedo, Heather Walker

Posture and Prehension in Infants

Daniel Ashmead

Discussant: Esther Thelen

Paper Session

Argenteuil

DS3 Infant-Adult Verbal Interactions

Chair: Yuriko Takane

Prelinguistic Infant Vocal Quality Affects Adult Attitudes

Kathleen Bloom

Partners in Communication: An Examination of the Effects of Multiple Caregivers on Infants' Communication Development

Carol Harding, Susan Kromelow, Margot Touris

Inhibiting Adult Vocalizations to an Infant: How Are Other Interactive Behaviors Affected?

Lynne Sanford Koester, Mary Gutfreund

Turn Exchange Patterns between Babies and Adults

Samuel W. Anderson

16h00-17h50 (cont'd)

Symposium

Grand Salon A

F13 Screening and Assessing Infants and Families at-Risk for Developmental Problems: A Multiple Risk Perspective

Chair: Samuel Meisels

Problems and Prospects in Early Identification of Young Children at-Risk for Developmental Problems

Samuel Meisels

The Connecticut Infant-Toddler Developmental Assessment: An Interactive Process Model

Sally Provenca

Family-Systems Determinants of Poor and Positive Outcomes

Carl J. Dunst, Carol Trivette

Identifying Vulnerable Infants and Families: A Multivariate Model Including Child and Family Domains

Thomas Kochanek

Discussant: Robert B. McCall

Symposium

Argenteuil

F14 Cries in Social and Communicative Context: Implications for Development

Chair: Gwen Gustafson

Crying When Baby and Mother Are Together

Evelyn B. Thoman, Christine Acebo

Caregiving Experience and Prototypic Social Responses to Infants' Cries

Gwen Gustafson, Kathleen L. Brady, Lisa M. Hinse

Carrying, Colic and Culture: Crying in Context

Ronald Barr

Infant Cry and Non-Cry Vocalizations as Signals in Early Parent-Infant Interactions

Mechthild Papousek

Discussant: Hanus Papousek

Symposium

Picardie AB

F15 Locomotor Experience and Psychological Development

Chair: Robert Telzrow

Effects of Locomotor Experience on Cognition and Communication

Robert Telzrow

Locomotor Experience and Object Retrieval Performance

Elizabeth L. Coletti, Rosanne Kermoian

Affective Development and Walking Onset

Deming Jones, Zeynep Biringen, Charlotte Henderson, Nancy S. Robinson, Chris Aman, Perry Butterfield

Changes in the Family System Following Crawling Onset: A Comparison of U.S. and Chinese Families

Joseph Campos, Qi Dong, Pang Li, Marcia Fleener, Chen Hong Tu

Discussant: Rosanne Kermoian

FRIDAY APRIL 20

SUNDAY APRIL 22

Paper Session
Grand Salon A

F16 Temperament, Socialization and Emotional Development
Chair: Ruth Solomon
 The Relationship between Neonatal Behavioral Characteristics and Perceived Infant Temperament at One Year
 Claudia Anderson Beckmann
 Effect of Maternal Depression on Infant EEG Activity and Emotional Regulation
 Geraldine Dawson, Laura Groer, Deborah Hill, Hercules Paragiotides
 Early Antecedents of Inhibited and Uninhibited Temperamental Categories
 Jerome Kagan, Nancy Sridman
 Early Socialization and Temperament in the Development of Guilt and Conscience
 Grazyna Kochanska
 The Origins of Shame and Pride
 Michael Lewis

Poster Session B3
Alfred Rouleau AB

B3.01 Hello-Goodbye: A Pilot Study of Father-Infant Interaction and Chronic Illness
 Peter Darke
B3.02 Relations between Marital Satisfaction and Mother-Infant Interaction with 4-Month-Olds
 Celia Brownell, E. Camfield, P. Taylor, N. Day, E. Brown, L. Kratzer
B3.03 The Effects of Perception of Control and Infant Temperament on Maternal Physiologic Response
 Wilberta Donovan, Lewis Leavitt, Reghan Walsh
B3.04 Maternal Views of Interaction with Their Premature Infants
 Jerri Oehler
B3.05 Fostering Responsiveness in Mothers of Handicapped Children: From Research to Practice
 Michele Haney, M. Diane Klein
B3.06 Maternal Depression and Control Orientation in Relation to Dyadic Play Behavior
 Gail Houck, Cathryn L. Booth, Kathryn E. Barnard
B3.07 Father Participation in Family Socialization during the First Two Years after a Second Child's Arrival
 Kurt Kreppner
B3.08 Language, Play, and Attention at One Year
 Catherine Tamis-LeMonda
B3.46 Family Stories: Mothers' Stories of Their Childhood and Relation to Mother-Toddler Interaction in a Free Play Setting
 Barbara Fiese
B3.47 The Relationship of Parental Knowledge to the Development of Extremely Low Birth Weight Infants
 Margo Dichtelmiller, Samuel Meisels, James Plunkett, Carol Clatlin King

Symposium
Grand Salon B

S15 Affective and Linguistic Functions of Motherese: Cross-Language Research on Early Language Input
Chair: Anne Fernald
 Affective Preference for Infant-Directed Speech: Cantonese and English
 Janet F. Werker, Judith E. Pegg, Peter McLeod
 From Preference to Reference: Affective and Linguistic Functions of Prosody in Speech to Infants
 Anne Fernald
 Child Directed Language in ASL: Taking Expressions at Face Value
 Judy Rellily
 Discussant: Richard Aslin
19h00-21h00

Reception
Le Windsor

A Celebration of Two Canadian Researchers of Early Social Development: Thèse Gouin Décarie and Mary D. S. Ainsworth
Chair: Gerald Turkewitz
 Introducing Mary D. S. Ainsworth
 Inge Bretherton
 Introducing Thèse Gouin Décarie
 Ina Uzgiris, Diane Poulin-Dubois

520?

Symposium

Grand Salon A

S12 Drug Exposed Infants: A Complex Biopsychosocial Problem**Chair: Kathleen Gilbride**

Developmental Outcome of a Sample of Drug Exposed Infants in the First Year of Life

Kathleen Gilbride

Developmental Outcome in Cocaine-, Cocaine/PCP-, and Non-Drug Exposed Infants

Kathy Sanders-Phillips

Characteristics of 50 Drug Exposed Infants in the Foster Care System

Marie Poulsen, Stephen Ambrose

Characteristics of Inner-City Mothers Who Use Drugs during Pregnancy

Stephen Ambrose, Marie Poulsen

Discussant: Michael Lamb

16h00-17h50

Paper Session

Grand Salon C

S13 Gestational Age and Neonatal Stress**Chair: Anton Millar**

Effects of Gestational Age on Human Neonatal Responses to Oral Stimuli

Barbara Smith, Dorothy Wickham, Elliott Blass

Energy Conservation in Preterm Infants during Skin-to-Skin (Kangaroo) Care with Their Mothers

Susan Ludington-Hoe, Anthony Hadeed, Gene Cranston Anderson

Lateralized Self-Calming Behaviors in Chimpanzee Infants

Kim Bard, William D. Hopkins, Carolyn L. Fort

Changes in Nutritive Sucking Patterns with Increasing Gestational Age

Barbara Medoff-Cooper

Stress and Illness

Michael Lewis

Symposium

Argenteull

S14 Becoming a Sibling: Adjustment, Roles, and Relationships**Chair: Morton Mendelson**

Firstborns' Behavior during their Mother's Pregnancy

Janet Baillies, Laurie N. Gottlieb

A Role Acquisition Framework

Morton Mendelson

With a Little Help From My Friends

Laurie Kramer

Caretakers, Friends, and Sibling Fit

Susan Murphy

Poster Session B3

Alfred Rouleau AB

Memory and Categorization

- B3.09 Categorization by Passive Exposure to Functional Information at 3 Months ✓
Margaret Borza, Carolyn Rovee-Collier
- B3.10 Form Categorization in 10-Month-Olds
Karen McCollam
- B3.11 The Generalities and Specifics of 2-1/2-Year-Olds' Memories of Complex Events
Patricia Bauer, Robyn Fivush
- B3.12 Infants' Recognition of the Categories of "Dog" and "Cat"
Ann Ellis
- B3.13 Rule Use in Categorization
Philip D. Zelazo, J. Steven Reznick, Denise Pinon
- B3.14 Functional and Perceptual Categorization by Young Infants
Valerie Kolstad, Renée Baillargeon
- B3.15 What a Truck Is Not: Contrast Effects in Infant Exploration of Objects
Kelly Madole, Lisa Oakes, Leslie Cohen
- B3.16 Visual Paired Comparisons as an Assessment Technique in the Second Year
Jeanne Montie
- B3.17 Predicting Later Cognitive Deficit from Recognition Memory at 3 to 5 Months ✓
Patricia Ann Shepherd, Joseph F. Fagan, Cynthia Knevel
- B3.18 Memory for Space-Time Rules in the Infant Visual Expectation Paradigm
Denise Arehart, Marshall M. Haith
- B3.19 Expressing Memory for an Infant Event ✓
Eve Emmanuel Perris, Nancy Angrist Myers
- B3.20 Contextual Alterations and Memory Retrieval at Six Months
Gary Shyi, Amy Schechter, Pamela Shields
- B3.21 Temporal Parameters of Memory Retrieval at 6 Months
Kimberly Boller, Carolyn Rovee-Collier
- B3.22 Very Long-Term Recall in Two-year-olds
Laraine McDonough, Jean Mandler
- B3.23 Infant Visual Recognition Memory: Relation to Later Language and IQ ✓
Susan Rose, Judith Feldman, Ina Wallace
- B3.24 Premises to Categorization in the 5-month-old Infant
Roger Lécuyer, Hélène Barret, Corine Lucci
- B3.25 Why Studies Find Earlier Evidence of Memory in Looking than in Reaching
Adele Diamond
- High Risk: Mother-Infant Interaction**
- B3.26 Prematurity Stereotype: Behavioral Implications in Mothers of Premature Infants
Marilyn Stern, Katherine Karraker, Andrea Meldrum, Sloan Norman
- B3.27 Effects of Joint Attention Interactions on Low Birth Weight (LBW) Infants' Exploratory Behavior Across the First Two Years
Susan Landry, Pam Garner, Mary Ann Richardson

Poster Session B3
 Alfred Rouleau AB
 B3.28 The Developmental Sequence of Joint Attention Skills for Preterm Infants: Effects of Medical Risk Status
 Susan Landry, Pam Garner, Mary Ann Richardson

B3.29 Ethiological Aspects of Dyadic Reciprocity between Mothers and Infants with Cerebral Palsy during Interactive Play
 Corinne Eisenhart, Elizabeth Hrcncir

B3.30 Chronic Illness, Parenting Stress, and Attachment
 Andrew Gotowiec, Anneke Fischer-Fay, Penny Morris
 Early Social Interaction of jaundiced Neonates
 Shahrokh Shataie, Patricia Self, Randy Allen

B3.32 Stimulation and Reciprocal Interaction among Extremely Low Birth Weight Preterm Infants and Their Mothers
 Janet Mann, Lisa Chiodo

B3.33 The Preterm Infant's Contribution to the Developing Attachment Relationship
 Regina Cusson

B3.34 Socio-Emotional Adaptation of Extremely Low Birth Weight Infants at 14 Months: Home and Laboratory Observations
 James Plunkett, Margot Dichtelmiller, Cynthia Dedrick, Meryl Berlin

B3.35 Individual Differences in Toddlers' Peer Interaction
 Celia Brownell, Earnestine Brown

B3.36 Maternal Differential Treatment: Effects on the Developing Twin Relationship
 JoAnn Robinson, Catherine Case, Robin Corley

B3.37 Behavioral and Cognitive Antecedents to Toddler Gender Segregation
 Lora Moller, Lisa A. Serbin, Kimberly K. Powlisha

B3.38 The Nature and Development of Peer Networks in Very Young Children
 Danielle Leclerc, Patrick La Ferte

B3.39 Developmental Changes in the Social Repertoire of Preschool Children in Stable Peer Groups
 Jean-Max Noël, Patrick La Ferte

B3.40 The Emergence of Sex-segregation in Preschool Peer Groups
 Frédéric Legault

B3.41 Toddler Precursors of Successful Friendship Formation in Preschool
 Catherine Matheson
 B3.42 Dominance Hierarchies in Early Peer Groups
 Frederic Legault, Jean-Max Noël
 B3.43 Structure and Process of Conflicts Over Possession in Two-Year-Olds
 Susanne Viernickel, E. Kuno Beller
 B3.44 Behavior Patterns Involved in Young Children Interaction
 Vera Vasconcellos
 B3.45 Children's Behaviour during the First Term in Kindergarten
 Tomoko Shinno

Poster Session C3
 Alfred Rouleau AB

C3.30 Social and Task-Related Behavior of Fullterm Small-for-Gestational-Age (SGA) Infants at Two Years
 Marjorie Beeghly, Dominique Vo, Emily Burrows, T. Berry Brazelton

C3.31 Classification of Problem Behaviors in Very Young Children: A Comparison of Four Systems
 Beverly I. Fagot

C3.32 Visual Attention at 12 Months as a Function of Intraventricular Hemorrhage
 Margaret Bendersky

C3.33 Predicting Developmental Outcome from Changes in NBAS Performance of Preterm Infants
 Carol Sepkoski, M. J. Corwin, H. Golub, Andrea Lourie

C3.34 Developmental Milestones of Premature, Low Birthweight Infants
 C.J.R. Simons, M. Harris, S. Ritchie, M. Mullett, D. Myerberg

C3.35 A Psychosocial Model for Predicting Quality of the Home Environment in High Risk Infants
 Stephen Engelke, James Helm, Martha Engelke, Don Holbert, John Wimmer

C3.37 New Trends in Early Identification and Therapy of Infants with CP
 Ferenc Katona, M. Berenyi, E. Giszti, P. Szabados, Gy Harmat

C3.38 Congenital Malformations in Northern Nigeria
 B. Werbilska, F. T. Momoh, E. I. Mbarali, D. Low

C3.39 Variability of the Aetiology of Generalized Bacterial Infections in Newborns
 M. J. Niznikowska Marks, A. Goralewska, A. Idaszak

Symposium
Picardie AB
 \$11
Temperament and Primary Social Relations
Chair: Ronald Seifer
 Parent-Observer Correspondence when Temperament Observations Are Reliable
 Ronald Seifer, Arnold J. Sameroff

The Relation between Temperament Ratings and Attachment Q-Sort Scores
 Sarah Mangelsdorf, Meryl Berlin, Cynthia Dedrick, Ardis Susseil

Temperament Correlates of Personality and Relationship Variables in a Down Syndrome Sample
 Brian Vaughn, Josefina Contreras

Temperament and Socio-Affective Aspects of Mother-Child Communication
 Marcel Trudel
 Discussant: Michel Maztade

Poster Session C3

Alfred Rouleau AB

Motion Perception

- C3.14 Reactivation of Infant Memory for Object Motion: Evidence for a 3-Phase Model of Infant Attention
Lorraine Bahrack, Jeffrey N. Pickens
- C3.15 Moving Figures Seen through a Narrow Slit
Ruth Kaufmann-Hayoz, Franz Kaufmann, Daniel Walther
- C3.16 Perception of Motion and Stability during Observer Motion by Pre-Stereoscopic Infants
Philip Kellman, Claes Von Hofsten, Kirsten Condry, Gretchen Vandewalle
- C3.17 Infants' Figure-Ground Segregation from Kinetic Information
Lincoln Craton, Albert Yonas
- C3.18 Infant Perception of Coherent Motion
Romy Spitz, Dorothy Kleffner

Standing, Stepping and Locomotion

- C3.19 Stability of the Newborn Stepping Pattern
Donna Fisher-Thompson
- C3.20 Regulation of Muscle Stiffness in the Leg Movements of Prewalking Infants
Jody Jensen, Esther Thelen
- C3.21 Infant Standing Posture in Light and Dark
Daniel Ashmead, Michael E. McCarty, Lorine M. Giberti
- C3.22 Frontal EEG Asymmetry Is Related to Onset of Locomotion and Performance on 2-Cloth Task
Martha Ann Bell

High Risk: Identification and Assessment

- C3.23 The Effects of Intraventricular Hemorrhage on Intellectual and Language Skills at Ages 2 and 3 Years
Lars Smith, Rolf Lindemann, Stein Erik Ulvund
- C3.24 Outcome at 18 Months of Infants at 23-28 Weeks' Gestation
Jacqueline Glorieux, Francine Lefebvre, Nicole Croteau
- C3.25 Motor Sequence Rating Scale: Early Identification of Developmental Delay in Infants with Intraventricular Hemorrhage
Nancy Immel, Adrienne Peterson
- C3.26 Effects of Intracranial Hemorrhage on Infant Socioemotional Development
Joyce Hopkins, Wendy Heller, Suzanne Cox
- C3.27 Nurses' Ratings of Mother-Infant Dyads: Prediction of "Poorness of Fit" and Developmental Risk
Marilyn Riese, Adam Matheny
- C3.28 Development of Premature Infants' Ability to Solve the AB Task
Ann Ellis
- C3.29 Play in 13 and 22-Month-Old Normal, Moderate, and High Risk Infants
David Laplante, Roxanne Bedard, Geraldine Moran

Symposium

Picardie AB

S1 General Issues in Infant Irritability
Chair: Cynthia Stifter

- Infant Colic and Its Effect on Parent Perception and Later Behavior
Cynthia Stifter
- Method of Feeding and Early Reactivity
John Worobey
- A Longitudinal Study of Sensory and Developmental Functions in Normal and Regulatory Disordered Infants
Georgia DeGangi
- General Infant Irritability: Continuity and Discontinuity in Early Irritability
Margaret Fish

Symposium

Grand Salon C

S2 Comparative Aspects of Intersensory Interactions in Early Development
Chair: David Lewkowicz

- Prenatal Determinants of Postnatal Sensory Dominance in Precocial Avian Neonates
Robert Lickliter
- Sensory Dominance and Equivalence in the Developing Rat
Norman Spear
- Developmental Differences in Infants' Response to Auditory/Visual Compounds
David Lewkowicz
- Discussant: Gerald Turkewitz

Paper Session

Grand Salon B

S3 Effects of Maternal Substance Abuse on Infants
Chair: Nancy A. Zolazo

- Effects of Prenatal Alcohol Exposure on Newborn Cry
Kevin Nugent, Sheila Greene
- Cocaine Exposure and Perinatal Complications in Well-Born and Intensive Care (ICU) Neonates
Marylou Behnke, Fonda Davis Eyler, Michael Conlon, Caroline Adams, Nanci J. Stewart
- A Comparison of the Effects on Infants of Maternal Cocaine Use Versus Other Substances and Illnesses
Susan Widmayer, Linda M. Peterson, Richard Marshall, William Burns
- Effects of Maternal Use of Cocaine and Alcohol on Neonatal Behavior
Claire Coles, Kathleen Platzman, Iris Smith, Mark James

Measures of Linguistic and Nonlinguistic Knowledge of Objects in the Second Year
Cecilia Shore, Wallace Dixon

Preverbal Object Concepts and Early Language Learning
Yvonne Caldera, Marion O'Brien

Relations among Word Meanings in Early Lexical Development
Sandra Waxman, Ann Senghas

An Influence of Labeling on Infants' Attention to Objects and Consistency: Implications for Word-Referent Mappings
Catharine Echols

The Comprehension-Production Debate in Language Acquisition: Where Does It Stand?
Roberta Golinkoff, Kathy Hirsh-Pasek

Paper Session

S5 Physical Knowledge

Chair: Nancy Taylor

3.5-Month-Old Infants' Knowledge of Support Relations
Amy Needham

The Development of Young Infants' Intuitions about Support
Renee Ballarigean

Early Conceptions of Object Motion: Inertia
Gary Katz, Elizabeth Speke

Infants' Sensitivity to Effects of Gravity on Visible Object Motion
In-Kyeong Kim

8h00-9h50

Alfred Rouleau AB

Poster Session C1 Infant-Mother Attachment and Its Correlates

Impact of Social Support on Attachment: Experimental Evidence
Sandra Jacobson, K. F. Kopera

On the Origins and Significance of Young Children's Attachments to Inanimate Objects
Susan Jones, Beth Ridge, John E. Bates

Avoidance in the Strange Situation: Independence or Regulation?
Julia Braungart, Cynthia A. Stifter

Socio-Affective Correlates of Q-Sort Attachment Classifications
Marta Manikowska, Jacques Naud, Denise Guilbert

Chronic Illness and Mother-Infant Attachment: A Comparison
Robert Simmons, Cathy Campbell, Penny Morris, Jane Washington,

Rodney Fowler, Anneke Fischer-Fay, Ian MacLusky
Parenting Behavior, Acculturation and Attachment in Hispanics
Maria Fracasso, Nancy A. Busch-Rossnagel, Celia B. Fisher

S3 Psychosocial and Medical Risk Factors: Peri- and Post-Natal Outcomes

Alfred Rouleau AB

Poster Session C3

Developmental Risk Factors and Outcome in Infant Tracheostomy
Lynn Singer, Carl Doershuk, Betsy B. Hill

Attachment, Coping, and Self-Regulation among Infants at Ecological Risk
Joan Vondra, Barbara Fotta

A Meta-Analysis of Cognitive Consequences of Preterm Birth
Julie Mason, Mary M. Manson, David R. Cross

Correlated Environmental Risk Factors in LBW Infants with and without Perinatal Brain Injury: Maternal Distress and the Home Environment
Barbara Bettes, Nigel Paneth, Sandra Sebris, Agnes Whitaker

Infants at Risk: The Influence of Maternal Prenatal and Postnatal Attitudes on Maternal Pregnancy Behavior, Birth and Postnatal Outcomes
Barbara J. Tinsley, Suzanne Trupin

Mothers' Interactions with Handicapped Infants: Effects of Context and Social Class
Patricia Becker, Kay Engelhardt, Shinya Kameshima, Mary J. Steinmann

Prenatal Factors, Infant Physical Status, Maternal Interaction and Infant Developmental Outcomes
UraJean Oyemade, O. J. Cole, A. Johnson, E. Knight, H. Laryea, C. H. Edwards

Differences in Depressed Mothers' Ability to Parent: Maternal, Infant, and Environmental Correlates
Douglas Teti, Janiece Pompa

Ego Development and Intellectual Ability Predict Breastfeeding in Inner-City Black Mothers
Sandra Jacobson, Joan T. Bihun, S. Schobertlein, Michelle Buda Abela, Debra Jozefowicz, Karen F. Kopera, R. J. Sokol, J. L. Jacobson, Melissa G. Kaplan

Labor Support and Perinatal Outcome
Susan McGrath, Steven Robertson, Marshall Klaus, John Kennell

Follow-Up Evaluation of Low Socioeconomic Status on Premature Infants
Lina Zahr, Jean Cole, Steve Parker

Cognitive Development of At-Risk Infants Born to Low SES Teenage Mothers in Brazil
Lelia Nunes, Mary Baltazar, Margarida Carvalho, Ida Mara Freire, Claudia Taborada, Regina Sisdelli, Neucideia Colnago

Influence of Mothers' Mood, Education, Support, Infants' Health Status and Intervention on Dyadic Interactions of Mothers and Their Premature Infants at 5 Months of Corrected Age
Sachiko Oshio, Mary A. Hammond, Rebecca Kang, Kathryn E. Barnard

Poster Session C1

Alfred Rouleau AB

- C1.07 Infant-Mother Attachment and the Ability to Be Alone in Early Childhood
Lisa Berlin, Jude Cassidy
- C1.08 Children Classified as "Insecure-Anxious" in Attachment at 12 Months: A 12-Year Follow-Up
Maurine Bernstein, Thomas S. Weisner, Judith Rosenthal, Claire E. Hamilton, Helen E. Garnier
- C1.09 Attachment and Kin Recognition: Isomorphic Concepts from Different Disciplines
Elizabeth Peters

Attention and Memory

- C1.10 Attention and Transfer within Dimensions during Infant Discrimination Learning
Jeffrey Coldren, John Colombo, Shannon Rash
- C1.11 Distractibility during Focused Attention in Infants
Lisa Saltarelli, Holly Ruff, Mary Capozzoli
- C1.12 Individual Differences in Infant Visual Attention: Are Shortlookers Faster Processors or Feature Processors?
John Colombo, Wayne Mitchell, Jeffrey Coldren, Shannon Rash, Laura Freeseaman
- C1.13 Encoding and Habituation: Fast and Slow Habitators' Response to Discrepancy
Jeffery Jankowski, Robert Haaf
- C1.14 Isolating a Retrieval Process in Infant Visual Recognition
A. De Saint Victor, P. Hull Smith
- C1.15 Infant Visual Recognition Memory Performance as a Function of Heart Rate Defined Phases of Attention
John Richards, Betty Jo Casey
- C1.16 Neonatal Headturning to Decreased Sound Pressure Level
Nancy Tarquinio
- C1.55 An Event-Related Potential and Looking Time Analysis of 4- and 6-Month-Old Infants' Responses to Familiar and Novel Events
Charles Nelson, Paul Collins

High Risk: Long-term Outcome Studies

- C1.17 Child Factors and Maternal Control Strategies Associated with Externalizing Problems in Preschool Children
Susan Campbell, Linda Ewing, Cynthia March, Elizabeth Pierce, Emily Szumowski
- C1.18 The Prediction of Attentional Differences among LBW Children
Ann Robson
- C1.19 Graham/Rosenblith Test and 7 Year Outcomes
Judy Rosenblith
- C1.20 Antecedents during Infancy of Self Perception of Children Born at Risk
Sarale Cohen
- C1.21 School Performance of Very Low Birthweight (VLBW) Preterm Children at 8 Years of Age
June Edmonds, Wanda Szymonowicz, Eileen Keith

Poster Session C2

Alfred Rouleau AB

- C2.45 Determinants of Maternal Vocal Behavior with 4-Month-Old Infants
Marguerite B. Stevenson, Mary Roach
- C2.47 Maternal Speech to US American and Japanese 5- and 13-Month-Olds: A Cross-Cultural Comparison
Sueko Toda, Marc Bornstein
- C2.48 Preference for Infant-Directed Speech in Newborn Infants
Robin Panneton Cooper
- C2.49 Segmentation Cues in Maternal Speech to Infants
Julide Woodward, Richard Aslin

Structured Conversation Session

Picardie AB

Federal Granting Agencies: Review of Research Applications**Chair: Teresa Levitin**

Canada:

Janet Halliwell, Natural Sciences and Engineering Research Council
Louise MacDonald, Social Sciences and Humanities Research Council
Francis Rolleston, Medical Research Council

USA:

William D. Crano, National Science Foundation
Victoria Levin, National Institute of Mental Health
Anita Sostek, National Institute of Child Health and Human Development

Nursing Research Meeting

Autoull AB

Co-chairs: Catherine Barnard, L. Colette Jones

Invited Address

Grand Salon A

Development of the Primate Cerebral Cortex

Pasko Rakic
Chair: Bernie Karmel

Invited Symposium

Grand Salon BC

Our Heritage, Our Destiny: Theoretical and Philosophical Influences and Future Directions**Chair: Phillip R. Zelazo**

Development of the Rational Infant
William Kessen

Philosophical and Theoretical Influences on the Study of Learned Behavior in Infants

Lewis P. Lipsitt

The Role of Temperament in Child Development
Jerome Kagan

Interviewer/Moderator: Robert B. McCall

- Poster Session C1**
- C1.22 Prediction of Behaviour Problems in 4-Year-Olds Born Prematurely
Mirek Lojkasek, Carl Corter
- C1.23 The Infant Behavior Record as a Predictor of Later IQ
Lisabeth Dilalla, David Fulker
- C1.24 Infant Lead Exposure and Child Behavior in a Developing Country
Abraham Wolf, Betsy Lozoff, Elias Jimenez
- C1.25 The Impact of Prematurity
Debra Bendell-Estrott, David Snyder, Kathleen Burke
- C1.26 Six Year Follow-Up of High Risk NICU Graduates
Susan Leib, John Vollman, Isadore Newman
- C1.27 Child Development and Iron Deficiency Anemia: A Screening Study on Middle Eastern Children Using the Denver Developmental Screening Test
Nawar Al-Naquib, A. Sadek
- C1.28 Effects of Prematurity and Home Environment on Developmental Outcome of Very Low Birthweight Children at Ages 7-8 in Israel
Susan Ella, Charles Greenbaum, David Wilensky, Asher Ornoy
- Language Acquisition**
- C1.29 Studying Morphological Development: A Methodological Comparison
Carolyn Mervis, Kathy Johnson
- C1.30 From Phonemes to Words or from Words to Phonemes: How Do Children Learn to Talk?
Elizabeth Goodell, Michael Studdert Kennedy
- C1.31 Quantitative Course of Early Language
Moshe Anisfeld, Erica Rosenberg
- C1.32 The Early Acquisition of the Sound Systems of English and French: A Longitudinal Two-Case Study
Andrea Levitt, Jennifer Aydelott
- C1.33 Hand Preference as Evidence for Laterality of Language in the Early Stages of Sign Language Acquisition
Paula Marentette, Pascale Girouard, Laura Pettito
- C1.35 Varying the Correlation between Infant Visual Fixations and Linguistic Input: Effects on Attention and Generalized Habituation in 15-Month-Olds
Kenneth Roberts
- C1.36 Acquisition of Color Terms: A Case Study
Carolyn Mervis, Jacquelyn Bertrand
- C1.37 Geometric Concepts in Children's Uses of In and On
Barbara Landau, Lisa Soricich
- Attachment**
- C1.38 Temperament and Attachment as Predictors of Toddlers' Compliance
Donna Bradshaw, Hiroshi Usui, Kazuo Miyake, Rosemary Campos, Joseph Campos
- C1.39 Maternal Sensitivity and Infant Attachment in a High-Risk Sample
Greg Moran, David R. Pederson, Pat Petit, Anne Krupka

Alfred Rouleau AB

Poster Session C1

- Poster Session C2**
- C2.26 Preterm Infants with Gastrostomy Tubes
Dianne Creighton, L. Pichneil, R. Sauve, I. Mitchell
- C2.27 Effects of Birth Weight (BW), Race, and Socioeconomic Status (SES) on Incidence of Reported Child Abuse and Neglect (CAN): A Longitudinal Study
Paul Taylor, Ronald David, David R. Brown
- C2.28 Integration of Behavioral Components of Down Syndrome
Susan McDonough, Eileen McMurren, Deborah K. Darrow
- C2.29 Outcome of VLBW Infants: Pre- and Post-Surfactant
Joanne Bregman, Elaine E. Farrell
- C2.30 Night Waking in Infants and Young Israeli Children
Anat Scher, Hannah Khoushy
- C2.31 Sudden Infant Death Syndrome (SIDS) in Israel
E. Tirsh, A. Tamir, M. Jaffe, J. Bar-Zvi, S. Rishpon, L. Epstein
- Auditory Perception**
- C2.32 Newborns' Head Orientation toward Trains of Very Brief Sounds
Marsha Clarkson, Irina Swain, Rachel Clifton, Kenneth Cohen
- C2.33 Maturation of Human Fetal Heart Rate and Movement Responses to Vibracoustic Stimulation
Barbara Kisilevsky, D. W. Muir, J. A. Low
- C2.34 Infant Movement Responses to Music
Sandra Trehub
- C2.35 Auditory Distance Perception in 6-Month-Old Infants and Adults
Ruth Litovsky, Rachel Clifton
- C2.36 Pure-tone Sensitivity of 2- to 4-Month-Old Infants Assessed with Auditory Reinforcement
Lynne Werner Olsko, Patrick Feeney
- C2.37 Localization and Detection Measures of Auditory Sensitivity
Bruce Schneider, Leigh Thorpe
- C2.38 Perception of Temporal Order of Non-Overlapping Tones
Laurel Trainor
- C2.39 Heart Rate Variability Discriminates 4-Month Down's and Control Infants
Michael Salomon Weiss, Kenneth Cohen, Lisa Eisen, Irina Swain
- C2.40 The Development of Sensitivity to Musical Structure
Laurel Trainor, Sandra Trehub
- C2.41 Fetal Audition, Known Facts and Their Consequences
Marie-Claire Busnel, C. Granier-Deferre, J.-P. Lecannet
- C2.42 Newborns Prefer a Prenatal Version of Mother's Voice
Christine Moon, William Fifer
- Motherese**
- C2.43 Maternal Input and the Child's Acquisition of Nouns and Verbs
Beverly Goldfield
- C2.44 Environmental Effects on Language Input to Infants
Scott Scheer, Richard Beckwith, Lois Bloom

Poster Session C2

Alfred Rouleau AB

Poster Session C2

Alfred Rouleau AB

- C2.08 Temperament and Walking Onset
Deming Jones, Robert N. Emde
- C2.09 Developmental Cross-Domain Relationships: Novelty Preference and Temperament
Suzanne Powell, Lee A. Thompson
- C2.10 The Effects of Temperament and Task Demands on 6-Month-Old Infants' Anticipation of Spatiotemporal Events
Marisa Brewster, P. Hull Smith, G. Levy
- C2.11 Parental Perception of Temperament in Infants and Toddlers with Cardiac Disease
Barbara Marino, Martha Lipshitz, Susan Norenberg
- C2.12 Socioeconomic and Racial Differences in Maternal Ratings of Toddler Temperament and Reported Parenting Stress
Rosemary Arena, William Fullard, Mary Ann Heverley
- C2.13 A Cross Cultural Study on Temperament: A Tentative Interpretation of the Influence of Culture and Some Aspects of the Daily Life
Colette Sabatier, Andrée Pomerleau, Gérard Malcuit
- C2.14 Temperament and Attachment: Health and Illness ✓
Susan Goldberg, Jan Neuman
- C2.15 The Relationship between Emotion and Cognition: An Empirical Investigation
Michael Sean Carriger
- C2.16 Soothing Heelstick Pain in Neonates with Rocking and Pacifiers ✓
Rosemary Gates Campos
- C2.17 Stability of Inhibition Measures in Infancy
Lisabeth DiLalla, Jerome Kagan

Psychopathology

- C2.18 Behavioral Domains of the Childhood Autism Rating Scale
David DiLalla, Sally J. Rogers
- C2.19 Cognition, Affect and Sensitivity in Mothers of Children with Down Syndrome
Leslie Atkinson, Brian Scott, Tom Bowman, Janis Blackwell, Susan Dickens
- C2.20 Learning and Memory in Down Syndrome Infants at 3 and 9 Months of Age
Jeffrey Fagen, Phyllis S. Ohr
- C2.21 Effect of Early Feeding Methods on Premature Infants
Christine Kennedy-Caldwell, Lewis Lipsitt
- C2.22 Affect Regulation among Maltreated Infants with Disorganized Attachments
Douglas Barnett, Dante Cicchetti, Jody Ganiban, Rebecca Martin, Vicki Carlson
- C2.23 Facial Affect and Self-Regulation in Failure-to-Thrive and Normal Infants
Lauren Abramson
- C2.24 Social Referencing and Affective Shifts in Down Syndrome Infants
Abigail Baxter, Linda J. Knieps, Tedra A. Walden
- C2.25 Feeding Behaviors and Mother-Infant Interactions in Failure-to-Thrive Infants: A Validation of Three Behavioral Scales
Maria Ramsay, Caroline Brisson

Poster Session C1

Alfred Rouleau AB

- C1.40 Attachment in Families with a Maltreated Infant: Representational Models of Infants and Mothers
Patricia Crittenden, Mary F. Partridge
- C1.41 Origins of Attachment: Infant-Mother Interaction across the First Year of Life
Russell Isabella
- C1.42 Attachment Organization at Age 3: Antecedent and Concurrent Correlates
Jude Cassidy, Lisa Berlin
- C1.43 Attachment and Shyness
Kristen Kemple, Nancy Hazen
- C1.44 Daycare Influence on the Quality and Stability of Q-Sort Attachment Classifications
Fred Strayer
- C1.45 Adolescent Mother-Infant Attachment: Continuity in Adaptation from 12 to 24 Months
Mary J. Ward, Carol B. Brinckerhoff, Laura A. Lent, Susan K. Gruber, Elizabeth A. Carlson, Daniel B. Kessler
- C1.46 Predictors of Perceived Maternal Attachment and Competence and Actual Mother/Infant Interaction in a High Risk Infant Population
Martha Engelke, Maryellen McSweeney
- C1.47 Attachment Security and Social Pretend Play Negotiations
Carollee Howes, Carol Rodning
- C1.48 Multiple Attachments and Peer Relationships in Social Pretend Play
Catherine Matheson
- C1.49 Predicting Infant-Mother Attachment from Adolescents' Prenatal Working Models of Relationships
Mary J. Ward, Elizabeth A. Carlson, Susannah Altman, Lauren Levine, Rhea H. Greenberg, Daniel B. Kessler
- C1.50 Interaction during "Love Hour" and Development of Attachment in Kibbutz Infants
Ora Aviezer, Ofra Mayselless, Tirtsa Joels, Frank Donnell, Moshe Tuvia, Yael Harel, Abraham Sagi

Development of Manual Preference and Prehension

- C1.51 Patterns of Bimanual Handedness in the Second Year
Douglas Ramsay
- C1.52 Development of Manual Preference: Five Months to Five Years
Paul McDonnell, Valerie Corkum, Monica Green, Raymond Shred
- C1.53 The Development and Coordination of Prehension Skills in 6-7 and 9-10-Month-Old Infants
Paul Boudreau, Alan W. Salmoni
- C1.54 Early Writing: Variability in Young Children's Grip Patterns
Jeffrey Lockman, Tammy Greer, Ellen Strauss

Symposium **S9** **Grand Salon A**
Emotional Availability: Strengths and Vulnerabilities in Development

Chair: Joy Osotsky

A Comparison of Emotional Availability in Two Caregiving Environments
 Della Hann, Joy Osotsky
 Changes in Emotional Availability as Related to the Onset of Infant Walking
 Zeynep Birtingen
 Differential Emotional Availability in Mother-Twin Dyads: Its Effect on the Organization of Relationships
 Joann Robinson, Christine Little
 Discussant: Robert N. Emde

Symposium **S10**
Supplemental Stimulation for NICU Preterm Infants

Chair: Tiffany Field

Self-Regulatory Gavage-to-Bottle Feeding: Effect on Clinical Course for Preterm Infants
 Gene Cranston Anderson, Marylou Behnke, Nancy E. Gill, Michael Conlon
 An Intervention That Permits Instrumental Learning in Premature Infants
 Evelyn B. Thoman, Evan W. Ingersoll
 Irritability Reduced and Sleep Enhanced: Effects of Different Types of Waterbeds
 Anneliese F. Kerner, N. M. Lane, K. L. Berry, J. M. Rho
 Biological Correlates of Growth in Massaged Preterm Neonates
 Tiffany Field
 Discussant: Victor Denenberg

Poster Session C2
Temperament and Its Correlates
Alfred Rouleau AB

C2.01 Temperament and Emotional Expression: A Short-Term Longitudinal Study
 Rosemarie DiBlase

C2.02 Infant Temperament: Longitudinal Instability from 6 Months to 2 Years
 Warren Eaton, Nancy A. Mckeon

C2.03 Infant Temperament and Attachment Predict Behavioral Inhibition at 24 Months
 Nancy Aaron, Susan Calkins, Nathan A. Fox

C2.04 The Factor Structure Stability and Predictive Utility of Temperament from Infancy to Middle Childhood
 Christine DiBlasio, Lynne A. Bond, Richard C. Wasserman

C2.05 The Role of Physical Attractiveness in Temperament Ratings
 Loretta Rieser-Danner, Judith H. Langlois

C2.06 Maternal Ratings of Cries during Pregnancy and the Early Infancy Periods and Perception of Offspring's Temperament
 Yvonne Bryan, L. Hurffman, F. Pedersen, Jae Dedo

C2.07 Maternal Ratings of Temperament with High-Risk Infants
 James Helm, Stephen C. Engelke, John Wimmer

Symposium **S6** **Picardie AB**
The Role of Imitation and Laughter in Discourse

Chair: Alan Fogel

The Dynamics of Shared Laughter in Mother-Infant Interaction
 Eva Nwokah, Hui-Chin Hsu, Alan Fogel
 Imitation in Mother-Child Conversations
 Ina C. Uzgiris
 Multiple Roles of Imitation in Toddlers' Achievement of Coordinated Action
 Carol Eckerman
 Discussant: Alan Fogel

Paper Session **S7** **Argenteuil**
Peer Relations

Chair: André Cloutier

Influence of Interactive Context on Mothers' Interventions in Peer Interaction
 Susan Lollis, Hildy Ross
 Social Roles in the Toddler Peer Group
 Danielle Leclerc
 Early Friendships and Social Skills: Is There a Relationship?
 Leslie Phillipson
 Family and Friends: Developmental Origins of Five-Year-Olds' Relationships with Close Friends
 Lise Youngblade

Symposium **S8** **Grand Salon C**
A Dynamical Systems Approach to Atypical Motor Development during Infancy

Chair: Eugene Goldfield

Fundamentals of a Dynamical Systems Approach to Atypical Motor Development
 Eugene Goldfield
 Dynamical Systems Perspective to Developmental Changes in Leg Movements in Preterm Infants
 Carolyn Heriza

Motor Development in Down Syndrome Infants: A New Approach to Understanding
 Beverly Ulrich, Dale Ulrich, Doug Collier
 On Viewing Atypical and Normal Development as Dynamical Systems
 Jane Clark

Discussant: Gregory Reid