

9th

INTERNATIONAL
CONFERENCE
on Infant Studies (ICIS)

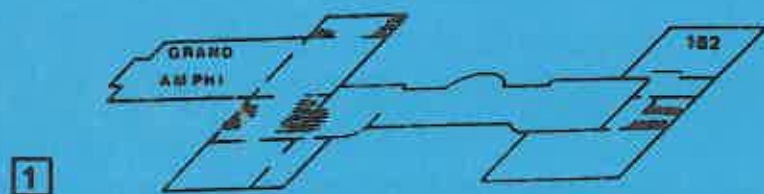


Paris

June 2-5, 1994

Maison de la Chimie

530



Pirges @ UMD. und

Pirges @ UMD. und

Christ celebrant

ACKNOWLEDGEMENTS

Mrs Simone Veil, the Minister of Social Affairs and Health, honors the IXth ICIS in Paris with her support and encouragement. The French Ministry of University and Research, as well as CNRS, INSERM and the General Director of Health have ably assisted the organization of the Conference. French Embassies in several foreign countries have been very helpful. EPHB-CNRS Laboratory of Developmental Psycho-Biology, University René Descartes Department of Psychology, CNRS Unit of Cognitive Neurosciences in Marseilles have generously assisted in making local arrangements and in planning the program. David Lewkowicz has kindly consented to prepare the ICIS special issue of Infant Behavior and Development, published as a gracious act by Ablex Publishing Corporation. Chairs and Members of the review panels have accomplished a heavy and difficult task, because of so numerous submissions to the Conference.

To these persons and institutions, we are happy to express our deep gratitude. It is the first time that ICIS has been held in Europe. That introduced new problems. We sincerely and warmly thank all the contributors for their patient and comprehensive care.

REMERCIEMENTS

La IX^e Conférence Internationale sur les Etudes de la Prime Enfance est placée sous le Haut Patronage de Madame Simone Veil, Ministre des Affaires sociales, de la Santé et de la Ville.

Le Ministère de l'Enseignement Supérieur et de la Recherche, le CNRS, l'INSERM, la Direction Générale de la Santé, ont accordé leur concours à la préparation du congrès. Les Ambassades de France en de nombreux pays étrangers nous ont apporté leur aide patiente.

Le Laboratoire de Psycho-Biologie du Développement (EPHB-CNRS), l'UR de Psychologie de l'Université René Descartes, Le Laboratoire de Neurosciences Cognitives du CNRS à Marseilles, ont généreusement coopéré et assuré un soutien local continu à la préparation de la Conférence.

David Lewkowicz a bien voulu se charger de l'édition du volume des résumés et la société Ablex en a assuré gracieusement, comme à l'habitude, la publication.

Les responsables et les membres des comités d'experts ont accompli avec cœur une tâche lourde et difficile en raison du très grand nombre de propositions reçues.

A toutes les personnes et institutions qui ont oeuvré aimablement pour la IX^e ICIS, nous exprimons notre profonde gratitude et nos sincères et chaleureux remerciements.

STEERING COMMITTEE

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Roger Lecuyer
Scania de Schonen

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Serge Lebovici
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Marian Sigman

LEARNING AND

CONDITIONING:
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Lewis Lipsitt
Fergus Lowe
Claire Poulson
Viviane Pouthas

GENERAL INFORMATION

Registration: At the lobby of the Conference, Main Hall, ground floor. Entrance: Saint Dominique Street, n°28. On Thursday, June 2, Friday, 3 and Saturday 4, from 9 a.m. to 5 p.m.

Hotels and Tours: Bureau Tradotel, Main Hall, ground floor, on Thursday, Friday and Saturday, from 9 a.m. to 5 p.m. On Sunday, 9-11 a.m.

Meeting Rooms: Most of the Symposia and Workshops are located at the first and second floors.

Posters sessions will be held on ground floor, rooms 7, 32, 33, 34 and, on Sunday morning, in the Gallery. Book Exhibit: Room 69, ground floor. Coffee Breaks: On the Gallery, ground floor.

Lunch: Lunch will be served in the dining-room, ground floor, n°8. Tickets (75FF) will be delivered at the lobby of the Conference, Main Hall, ground floor. We recommend that you buy all the tickets upon arrival.

Social Events: A welcome cocktail will be offered, on Thursday, from 6.30 to 8.30 p.m., in the Gallery, ground floor. The Conference Dinner, followed by a barocco music concert will be held on a boat cruise on the Seine, Friday, June 3, from 8 to 11.30 p.m. Embarkment place: Solferino Quay, in front of Musée d'Orsay, at 8 p.m.

Transportation: Airport shuttles (Air-France buses) from Roissy-Ch. de Gaulle and from Orly to Invalides terminal (150m. to the Conference Site).
RER shuttles: Line B to "Gare du Nord" in Paris down-town.

INFORMATIONS GÉNÉRALES

Inscriptions: Il est possible de s'inscrire sur place, au bureau du congrès, Grand Hall, entrée du 28, rue Saint-Dominique, les jeudi 2, vendredi 3 et samedi 4 juin, de 9 h. à 17 h.

Les documents du congrès sont à retirer au même bureau.

Hôtels et tournées: Renseignements et réservations, bureau Tradotel-Accueil, Grand Hall, entrée du 28, rue Saint-Dominique, tous les jours de 9 à 17 h.

Dimanche 5 juin, de 9 à 11 h. Salles de réunion: cf. plan ci-joint. La plupart des symposia ont lieu dans les salles du 1er et du 2ème étages.

Les séances de communications affichées ont lieu dans les salles 7, 32, 33 et 34 et, le dimanche matin, également dans la galerie. Toutes ces salles sont situées au rez de

chaussée. Les pauses-café ont lieu dans la Galerie, au rez-de-chaussée. Les déjeuners sont servis dans la salle à manger du rez-de-chaussée, salle 8.

Repas: Déjeuners en plateaux-repas, au prix de 75F. Les tickets-repas sont en vente au bureau d'accueil, Grand Hall, rez-de-chaussée. Il est conseillé d'acheter ses tickets dès l'arrivée, pour l'ensemble des jours du congrès.

Réceptions: Un cocktail de bienvenue est offert, le jeudi 2 juin, de 18h30 à 20h30, dans la Galerie, rez-de-chaussée. Le dîner du Congrès, suivi d'un concert de musique baroque, a lieu au cours d'une croisière sur la Seine, le vendredi soir 3 juin de 20 à 23h30. Embarkement: Quai de Solferino, en face du Musée d'Orsay à 20 h. précises.

Transports: Autobus Air-France des aéroports de Roissy-Ch. de Gaulle et d'Orly au Terminal Invalides. RER: Ligne B, de Roissy-Ch. de Gaulle à la gare du Nord, où sont assurées toutes correspondances par métro et bus.

SPECIAL EVENTS

Presidential Address by Tiffany FIELD :
Grand Amphi., 1st floor, on Thursday,
June 2, 4.15-5.15 p.m.

ICIS Student Award: Presentation of the
recipients papers:: Suzanne Cox, Rick
Gilmore, Susan Graham and Yuko
Munakata.
Grand Amphi., 1st floor, 5.15- 6.15 p.m.

ISIS Executive Board Meeting: On Friday,
3 at 1p.m., Room 8, ground floor.

ISIS General Meeting: On Friday, 3, 6 to
7p.m., Amphi Jean Gérard, ground floor.

WOOD, R.M.
WOOD, R.M.
WOROBAY, J.
WRIGHT, D.
WRIGHT, J.H.
WRIGHT, M.
WU, F.
WYLY, M.V.
XU, F.
YAMASHITA, T.
YANAIHARA, T.
YANDO, R.
YAOHAU, D.
YEUNG, R.
YOGMAN, M.W.
YONAS, A.
YOSHIDA, K.
YOUNGBLUT, J.M.
YULAN, L.
ZACH, U.
ZACH, L.K.
ZARING, D.
ZEANAH, C.H.
ZECEVIC, N.
ZEEDYK, M.S.
ZELAZO, P.D.
ZEPEDA, M.
ZESKIND, S.P.
ZHAO, S-Y.
ZHOU, L.Y.
ZIEGENHAIN, U.
ZIJLMANS, B.L.M.
ZIMMERMAN, L.
ZINETTI, A.
ZOU, H.
ZUKOW-GOLDRING, P.
ZUMBAHLEN, M.

University of Minnesota.
University of Minnesota.
Rutgers University, New Brunswick. 29,
Pennsylvania State University.
McGill Univ., Children's Hosp, Montreal
UCLA.
Education Department Hood College, Frederick.
State College at Buffalo.
Mass. Institute of Technology, Cambridge, MA.
Case Western Reserve Univ., Cleveland. 20,
University of The Sacred Heart at Tokyo.
University of Miami School of Medicine.
University of Washington at Seattle.
Royal Hospital for Sick Children at Bristol.
Cambridge, MA.
University of Minneapolis.
Institute of Psychiatry.
Case Western Reserve University at Cleveland. 52,
University of Washington at Seattle.
University of Osnabrück. 9, 15,
UCLA.
Penn State University.
Louisiana State Univ. Medical Center, New Orleans.
Institute Biological Research.
Dundee University. 20,
University of Toronto.
California State University at Los Angeles.
Virginia Polytech. Inst. & State Univ, Blacksburg.
Queensland University of Technology, Zillmere. 43,
Heidelberg College, Tiffin.
Free University of Berlin. 8,
Wilhelmina Children's Hospital, Utrecht
Boston.
University of Geneva.
Beijing Normal University.
University of California, Irvine. 30,
University of Illinois at Champaign-Urbana.

VITALJEVNA, S.C.
VITRANT, C.
VÖLKER, S.
VOLTERRA, L.
VORKAPICH, L.
WAGNER, A.
WAKELBY, A.
WALDEN, T.A.
WALKER, D.
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WALLACE, P.M.
WALTON, G.E.
WANG, Q.
WATANABE, T.
WATSON, E.
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WAXMAN, S.
WEARDEN, J.H.
WEGESIN, D.
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WEINBERG, M.K.
WEIR, C.G.
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WERKER, J.F.
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WHALEN, D.H.
WHITE, K.A.
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WHYTE, V.A.
WIDMAYER, S.
WIERICH, T.
WUNROKS, L.
WILCOX, M.J.
WILFERT, C.
WILLATTS, P.
WILE, D.E.
WILLERMAN, R.
WILLIAMS, E.
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WILSON, A.
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WOBIE, K.
WOLF, C.M.
WOLKE, D.
WON, D.
WOOD, C.
WOOD, J.R.
WOOD, J.R.
WOOD, J.R.

Moscow State University.
Hôpital de la Salpêtrière, Paris.
University of Osnabrück.
National Council of Research at Roma
University of Windsor
Children's National Medical Center, Washington.
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University of California at Berkeley.
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UMCH, Munich.
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Stanford University.
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Hôpital St Vincent de Paul, Paris.
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Hôpital St Vincent de Paul, Paris.
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University Cornell, Ithaca.

POSTER SESSIONS

Poster Time		Room 7	Room 32	Room 33	Room 34
Thurs. 2/6	1.30-3.30pm	Socio-Emotional Competence and Development	Emotional Reactions	Speech Perception and Production	Speech Perception
Fri. 3/6	8.30-10.30am	Parenting	Evaluation & Prediction	Object Concept	Object Play
	11am-1pm	Memory	Language-Communication between parent and infant	Posture and Locomotion	Attachment
	1.30-3.30pm	Temporal and Spatial Anticipation	Fetal Behaviour and Experience	Peer Interaction	1. Parents-Infants Interaction: Cultural Differences
	4-6pm	Lexical, Symbolic and Semantic Development	1. Interpersonal Communication	Nursing, Intervention and Day-Care	Nutrition, Taste and Olfactory Sensitivity
Sat. 4/6	8.30-10.30am	Mother-Infant Relations	Face Perception	Brain Injury, Handicap, Perinatal Complications	Temperament
	11am-1pm	Mother/Father-Infant Relations	Maternal Depression and its effects on the Infant	Prediction-Evaluation of Outcome in High Risk Infants	Maternal Behavior and Attachment
	1.30-3.30pm	Causality and Categorisation	Reaching and Reaching in Relation to Vision	Attention, Habituation, Learning	Pre-Verbal and Verbal Symbolic Processes
	4-6pm	High-Risk and Drug	Vision, Visual Impairments	Special Infant Care, as a Doc. of Parent-Infant Interaction	Stress
Sun. 5/6	8.30-10.30am	1. Cross-Modal perception	Perception of Static and Dynamic Forms	1. Parental Perception of Risk and Interaction	
		2. Neonate Reactivity		2. Infant Mortality	
		Galerie			
		Low Weight-High Risk			

SYMPOSIA

Symp. Time	Amphi. J. Gerard	Room 162	Room 203	Room 206
Thurs 2/6	1-3pm Efr. Violence on Inf. (Oudafsky)	Workshop (1-3pm) Cong. Focal Brain Injuries (Silles)	Dev. Proform Inf. (Mohay)	
	4-19pm PRESIDENTIAL ADDRESS (Grand Amph)			
	5-19-4-19pm ICIS Student Awards (Grand Amph)			
	6-30-4-30pm COCKTAIL PARTY (Galerie)			
Frid 3/6	9-11am Workshop (9h-12am) Att. Comm. & Cogn. (Kilverboer/Gente)	Assess. Risk Earl. Inf. (Karnel)	Method. Issues Op. Learn. (Lowe)	Fetal Experience (Kraenager)
	11am-1pm Trans. Mat. Depr. (Samaroff)	Impact. Mater. Postnat. Aff. Disord. (Kumar)	Efr. Exp. Percept. Dev. (Maurer)	BPD Behav. Feed. & Dev. Is. (Goldson)
	2-4pm Inf. Soc. Cogn. (Caron)	Inf. Soc. Cogn. (Caron)	Dev. Perc. Obj. Unity in Inf. (Johnson)	Inf. Crying & Parent (St. James-Roberts/Wolke)
	4-6pm Inf. Face Percep. (Nelson)	Mat. Depr. Efr. Inf. Behav. Physiol. (Field)	HLM (McKeever)	
	6-7pm ISIS Gen. Assemb.			
Sat 4/6	8-11:30pm CRUISE RIVER SEINE/DINNER/BAROCO MUSIC CONCERT			
	9-11am Develop. outcome Drug Exp. Inf. (Sandera-Phillips)	Develop. outcome Drug Exp. Inf. (Sandera-Phillips)	Spoken & Sign Langu. Prod. (McNeillage)	Via. Screen. & Assess. Tech. (Attinson/Vial-Durand)
	11am-1pm Detect Efr. Prenat. Alc. & Drug. (Jacobson)	Detect Efr. Prenat. Alc. & Drug. (Jacobson)	Inf. Ident. Word-lev. Units (Echols)	Post. & Goal-direct. Behav. (Savelsbergh/Von Hofstern)
	1-3pm Patterns Neurodev. Manif. HIV Inf. (O'Donnell)	Patterns Neurodev. Manif. HIV Inf. (O'Donnell)	Intermod. Transf. Touch Via (Sher/Maurer)	Early Sense of Self (Rochet)
	2-4pm 3pm Soc. & Comm. Asp. Autism (Nadel/Rogers)	Soc. & Comm. Asp. Autism (Nadel/Rogers)	Develop. Self (Lewis)	Music in Infancy (Lynch/Papousek)
Sun 5/6	9-11am		Stab. Inf. Temp. (Wardbey)	Org. Ment. Repres. (Triang.) (Lebovici)

TARIN, A.
TASSI, F.
TAYLOR, D.
TENUTA, P.
TESMAN, J.R.
TESSIER, R.
TETI, D.M.
THAL, D.
THELEN, E.
THOMAN, E.B.
THOMAS, K.M.
TIEN, H.
TILDEN, J.
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TOUT, K.
TRAD, P.V.
TRAINOR, L.J.
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TREMBLAY-LEVEAU, H.
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TRUDEL, M.
TRUE, M.
TSONIS, M.
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Van IJENDOORN, M.H.
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VAUGHN, B.E.
VENUTI, P.
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VERNEY, C.
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VITAL-DURAND, F.

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University of Dundee.
University of Firenze.
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ED. Children's Hospital, Boston. 13,
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Indiana University, Bloomington.
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Erasmus University, Amsterdam.
University of Leiden. 10,
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Indiana University, Bloomington.
Manuela. Université du Québec à Montréal.
University of TX Houston Health Science Centre. 32,
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INSERM, Cerveau et Vision, Lyon-Bron.

SOLOVJOVA, E.V.
SORDI, C.
SOUNDNY, J.
SOUSSIGNAN, R.
SOUTULLO, D.
SPANGLER, G.
SPELKE, E.
SPENCE, M.J.
SPENCE, J.P.
SPENCER, P.E.
SPERANZA, A.M.
SPETH, M.R.
SPIKER, D.
SPRAGUE, D.
STACK, D.M.
STAHL, W.
STAHNKE, M.
STANSBURY, K.
STARKE, B.
STARKE, R.E.
STARKEY, P.
STEIN, A.
STEPHENS, P.
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STERN, D.N.
STERN, M.
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SULLIVAN, R.M.
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SUSMAN, L.
SUTTON, D.
SUWALSKY, J.T.D.
SWANK, P.R.
SWANSON, C.S.
SWANSON, K.
SWANSON, A.
SWENSON, K.
SWERLANDER, A.
SWINTH, J.
SWITALA, J.
TAILLAL, P.
TAMIS-LEMONDA, C.S.
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Galilaei University at Washington.
Roma.
State College at Buffalo.
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Concordia University, Montreal.
Free University of Berlin.
Free University of Berlin.
University of New Mexico, Albuquerque.
San Diego.
Purdue University, West Lafayette.
University of California at Berkeley.
St John's University.
University of Miami Medical School.
University of California at San Diego.
STERN, D.N.
STERN, M.
STERN, C.
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University of Albany.
Pennsylvania State University.
University of California at San Diego.
University Hospital at Lund.
Université René Descartes, Paris.
University of California.
Université de Toulouse le Mirail.
Université René Descartes, Paris.
Purdue University at West Lafayette.
Uppsala University Children's Hospital.
Addiction Research Center/NIDA at Baltimore.
Wellesley College, Toronto.
Univ of R.I. Women Infants' Hospital, Providence
UMDNJ-Robert Wood Johnson Med. Sch, New Brunswick.
University of Oklahoma, Norman.
UCSD Medical Center, San Diego
University of Washington
Pennsylvania State University.
B. University of Maryland at College Park.
NICH.D.
University of TX Medicine School, Houston.
University of British Columbia, Vancouver.
UCLA.
Center for Early Learning at Cambridge, MA.
UCLA.
Göteborg University.
UCLA.
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SWITALA, J.
TAILLAL, P.
TAMIS-LEMONDA, C.S.
TAN, K.E.W.P.
TANKE, M.J.
TANNER, S.
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SWANSON, K.
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SWENSON, K.
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SWINTH, J.
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TAILLAL, P.
TAMIS-LEMONDA, C.S.
TAN, K.E.W.P.
TANKE, M.J.
TANNER, S.
TARABULSY, G.M.

XX

SYMPOSIA (continued)

	Symp. Time	Room 208	Room 212	Room 241	Room 257	Room 262
Thurs 2/6	1-3pm	Infant Gaze Aversion (Self/Gabier)	Trans. Famil. Daycare. (Bakier)	Reading in Infancy (Pechaux)	Spet. Asp. Procl. Sch. (Loebman/Brenner)	
	4-13pm					
	8:15-4:15pm					
	8:30-4:30pm					
Frid 3/6	9-11am		Category-inf. inter. Cult. Cont. (Bornslein)	Spec. Com. Earl. Sens. Funct. (Block)		Peric. Speech/Lingu. Struct (Beal)
	11am-1pm	Interp. Negot. Interact. (Reddy)	Early Soc. Exp. (Lamb)			School. Perf. Int. born at risk (Katz)
	2-4pm	Arous. Self-reg. Pref./Full-term. (Gall)	Suicosa Effects on Pain (Bar)	Dev. Issues Int. Biman. Coord. (Miche)		Pratigu. Voc. Develop. (Lynch/Locce)
	4-6pm		Inf. Proc. Met. Inform. (Bridock)	Rec. Progr. Stud. Point (Butterworth)		
	8-7pm					
	8-11:30pm					
Sat 4/6	9-11am	Care. Veg. Regul. (Dassard-Rosevelt/Porges)	Relat. Med. & Mod. Int. React. (Sampier/Gurner)	Qual. Attach. Preach. Years (Cribben)		Mediam. Interact. Casual. (Lucy)
	11am-1pm	Method. Appr. Inf. Avid. (Barnet/Werner)	Underst. Earl. Affect. Resp. (Gutman)	Catch. Other's Eye (Rang)		Origins of mind (Berthel)
	1-3pm					Ling-term Emot. Comp. (Dentman/Mcsw)
	2-4pm	Early Soc. Inter. Skills (Courtois)	Develop. Neuropsych. (Apes) (Bard)	Theor. Appr. Shared Attention (Zukow/Oshina)		Workshop (3-6pm) Large Mult. Site Studies (Friedman)
	4-6pm	Early. Form. & Emerg. Relat. (Moderato)		"Sleep baby sleep" (Wolke/Salazar)		Roundtable: Twins Mult. Birth (Robb)
Sun 5/6	9-11am	Confer. Phenet. Postnat. Behav. (Chamberlain)		Early Sens. Exp. Infant. Preterm (Aderson/Werner/De Carvalho)		

Thursday, June 2

1-3 p.m.

SYMPOSIA

S1. THE EFFECTS OF VIOLENCE ON INFANTS AND YOUNG CHILDREN.

Amphi J. Gérard.

Convenor:

OSOFSKY, J.D.

Contributions:

- 1) *Reflections on the conditions of violence for romanian babies.*
F. Weil-Halpern.
- 2) *Towards the validity of post-traumatic stress disorder in infancy.*
Michael S. Scheeringa, Charles H. Zeanah.
- 3) *The effects of witnessing mothers' shooting death on two year old twins.*
G. Cohen, J.D. Osofsky, M.J. Drell, M. Lewis.

S2. THE DEVELOPMENT OF PRETERM INFANTS: OUTCOMES AND IMPLICATIONS

ROOM 203

Convenor:

MOHAY, H.

Contributions:

- 1) *Verb acquisition in preterm children.*
M.T. Le Normand, M.J. Delfosse, D. Crunelle, C. Vittrant.
- 2) *Synchronic and diachronic patterns of development in low-birthweight infants.*
Magda Kalmár, Erzébit Csiky.
- 3) *Brainstem auditory evoked responses as predictors of language development in preterm children.*
Linda S. Siegel.
- 4) *The influence of low birth weight on cognitive and executive function at six years.*
Peter Willatts, Sharon Hall, Stewart Forsyth, Janet Nelson, David Taylor.

Discussant:

Susan Rose.

S3. TRANSITION FROM FAMILY CARE TO DAY-CARE.

ROOM 212

Convenor:

BELLER, K.

Contributions:

- 1) *Infants and caregivers: Adjustment to child care.*
Greta Fein.
- 2) *Age of entry into day care and the quality of attachment.*
Ute Ziegenhain, Hellgard Rauh, Bernd Müller.
- 3) *The pace of the transition of infants from the family to daycare.*
Kuno Beller, Walter Stahl, Marita Stahnke, Holger Wessels.

SCHNEIDER, B.
SCHNEIDER, M.L.
SCHOFIELD, R.
SCHÖLMERICH, A.
SCHUBERT, A.B.
SEGAL, L.
SEGOND, H.
SEIBERT, J.
SEIFER, R.
SELF, P.A.
SELLIN, S.
SELVI, A.
SERBIN, L.A.
SERVI, P.
SERVICE, V.
SEVCIK, R.H.
SEXSON, W.R.
SHAFABE, M.S.
SHAFER, A.
SHAFER, V.L.
SHAHINFAR, A.
SHAMAN, P.
SHANNON, M.R.
SHAPIRO, E.
SHARP, D.
SHEIBER, F.
SHELLEY-SIRECI, L.M.
SHEPARD, B.A.
SHIAO, S-Y.P.
SHIMIZU, Y.
SHORE, C.
SHOUP-PECENKA, A.G.
SHUCARD, D.W.
SHUCARD, J.L.
SIEGEL, L.S.
SIEGLER, R.
SIGMAN, M.
SIKKA, N.
SIMCOCK, J.
SIMION, F.
SIMON, I.

SIMONS, C.J.R.
SINGER, L.
SIPPEL, K.
SIRETEANU, R.
SKOEN, P.
SLATER, A.
SLUDER, L.C.
SMITH, A.B.
SMITH, B.
SMITH, D.
SMITH, E.G.
SMITH, K.E.
SMITH, P.H.
SMOTHERMAN, W.P.
SNOW, K.L.
SOEDERBERG, L.
SOLOMON, J.
SOLOMON, M.J.

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University of Firenze.
Concordia University, Montréal.
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SUNY at Buffalo.
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Arizona State University at Temple.
University of Massachusetts, Boston.
Institute of Psychiatry, London.
Yeshiva University, Bronx, N.Y..
NICH & Human Development, Rockville.
Yale University School of Medicine, New Haven.
Case Western Reserve Univ. at Cleveland.
University of The Sacred Heart at Tokyo.
Heidelberg College, Tiffin.
University of Texas at Dallas.
SUNY at Buffalo.
SUNY at Buffalo.
Ontario Inst. for Studies in Educ., Toronto.
Carnegie Mellon University, Pittsburgh.
University of California at Los Angeles.
Cornell University, Ithaca.
University of Wolverhampton.
University of Padova.
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Penn. State University at Uniontown.
Case Western Reserve Univ., Cleveland.
Georgetown University Hospital, Washington.
Max-Planck Inst. for Brain Research at Frankfurt.
Queensland University of Technology.
University of Rochester.
Texas Woman's University.
Dunedin
Institute of Psychiatry at London.
Duke University at Durham.
Cornell University, Ithaca.
University of TX Medicine School, Houston.
University of Toledo.
Binghamton University.
Cornell University, Ithaca.
University of New Hampshire.
UCLA.
Wellesley College, Toronto.

S4. SPATIAL ASPECTS OF PROBLEM SOLVING.

Convenors:

LOCKMAN, J.J.
BRENNER, J.G.

Contributions:

- 1) *Coordinating frames of reference: Relating objects together.*
J.J. Lockman.

- 2) *Manual and locomotor solutions of spatial problems.*
B.E. McKenzie.

- 3) *The role of spatial knowledge in means-end problem solving.*
Peter Willatts.

- 4) *Relations between perceptual, motor and cognitive development during infancy.*
J. Gavin Bremner.

S5. INFANT GAZE AVERSION: DEVELOPMENTAL ISSUES.

Convenors:

SELF, P.A.
KRILEK, H.

Contributions:

- 1) *Infant's gaze aversion and maternal responsiveness.*
Susanne Volker, Ulrike Zach, Athanasios Chasiotis.

- 2) *Infant gaze during mother-infant face-to-face interaction.*
Rebecca L. Czekaj.

- 3) *The developmental significance of gaze and gaze aversion in early infancy.*
Athanasios Chasiotis, Susanne Volker, Ulrike Zach, Ramona Restemeler.

- 4) *Do individual differences in infant visual behavior relate to later maternal visual and vocal behaviors?*
M. Shahrroh Shafake.

Discussant:

Mechthild Papoušek.

S6. READING IN INFANCY: WHY AND HOW?

Convenor:

PECHEUX, M.G.

Contributions:

- 1) *Grasping the nature of pictures: Infants' manual exploration of depicted objects.*
Judy S. DeLoache.

- 2) *Infancy and written language: The role of communication with adults in the formation of early representations of written language in 2 and 3-year-old children.*
Jan Luczynski.

- 3) *Maternal monitoring of attention during joint reading with 1-to 3-year-old toddlers.*
Anne Baudier, Anne-Marie Fontaine, Marie-Germaine Pêcheux.

- 4) *Joint reading between mothers and their head-start children: Vocabulary development in two text formats.*
Anthony D. Pellegrini, Rhel Jones.

22, 26, 40, 45, 47	Emory University, Atlanta.
32	University of New Hampshire.
35	Yale University, New Haven.
37, 48, 49	University of Colorado, Denver.
37, 51	Utah State University, Logan.
51	University of Nebraska at Lincoln.
22	Umeå University.
27	Université Paul Sabatier, Toulouse.
22	University of Virginia, Charlottesville.
31	University of Virginia, Charlottesville.
8, 17, 37	Albert Einstein Coll. of Medicine, New York.
43	Albert Einstein Coll. of Medicine, New York.
31	Fondation de Rothschild, Paris.
23, 32	Inst. for Study of Child Dev., Minneapolis.
12	University of California at Berkeley.
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12, 55	University of Bologna.
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51, 56	University of Windsor.
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17	CHU Bretonneau de Tours.
38	Akron Craniofacial Center, Akron.
40	Fac Human Movement Sciences, Amsterdam.
58	University of Maryland College Park.
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37	Karl-Franzens University, Graz Austria
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11	Haifa University.
17, 50	Haifa University.
51	NIMH at Bethesda.
35	University of Regensburg.
19, 44	Brown University, Providence.
40, 42	University of Maryland, College Park.
23	Institute of Psychiatry, London.
55	University of Toronto at Scarborough.

ROCHAT, P.	
ROCHELBAU, A.	
RODIN, J.	
ROGERS, S.J.	
ROGGMAN, L.A.	
RÖNNQVIST, L.	
RÖMERO, P.	
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ROSE, J.L.	
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ROSE, S.A.	
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ROVIRA, K.	
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RUTKOWSKA, J.C.	
RYTHER, J.S.	
SABBAGH, M.	
SACCO, M.	
SAGI, A.	
SAINT VICTOR (de) C.	
SALZMAN, J.	
SAIZARULO, P.	
SAMEROFF, A.	
SAMPERS, J.	
SAMPSON, C.A.	
SANSAVINI, A.	
SANSCRAINTE, M.	
SANTAMAN-WIENER, A.L.	
SASSO, D.	
SAUDINO, K.J.	
SAUVAGE, H.E.	
SAVAGE, H.E.	
SAVELSBURG, G.J.P.	
SCANLON, J.W.	
SCANLON, K.	
SCHAL, B.	
SCHADE, H.M.A.	
SCHALLI-DILPOS, N.	
SCHANDEL-KLITSCH, E.	
SCHAEER, M.	
SCHAEER, P.J.	
SCHERER, M.S.	
SCHER, A.	
SCHER, A.	
SCHERER, A.	
SCHERER, M.	
SCHILLER, M.	
SCHMIDT, L.A.	
SCHMUCKER, G.	
SCHMUCKLER, M.A.	

5) *Affective dimension of mother-infant picturebook reading*
Adriana Bus, Marinus Van Ijzendoorn.

1-4 p.m.

WORKSHOP:

W1. THE EFFECTS OF CONGENITAL FOCAL BRAIN INJURY ON COGNITIVE, LINGUISTIC AND AFFECT DEVELOPMENT. ROOM 162

Convenor:

STILES, J.

Contributions:

- 1) *Spatial cognitive development in children with focal brain injury.*
Joan Stiles.
- 2) *Affective expression in infants with early focal brain damage.*
Judy Reilly.
- 3) *Deficits of selective visual attention in children with focal lesions.*
Janette Atkinson, Bruce Hood.
- 4) *Face recognition in children with early unilateral damage.*
Mancini, J., de Schonen, S., Deruelle, D.
- 5) *Language development in children after early focal injury.*
Elizabeth Bates.
- 6) *Event-related potential studies of language acquisition and cerebral plasticity in infants with focal brain lesions.*
Debra L. Mills, Sharon Coffey-Corina, Lisa DiJulio, Helen J. Neville.

1.30-3.30 p.m.

POSTER SESSIONS

A1 SOCIO-EMOTIONAL COMPETENCES AND DEVELOPMENT ROOM 7

- A1.01 The Relationship of Motor Skill to Attachment, Exploratory Behavior and Temperament in Toddlers.
Holly M. Cintas.
- A1.02 Social-Emotional Assessment for Infants and Toddlers: Overview and Needs Summary.
Susanne A. Denham, Susan Lydick.
- A1.03 Using Children's Play to Examine Social Competence and Other Developmental Factors.
Rebecca R. Fewell.
- A1.04 Toddlers' Emotion Regulation Behaviors: The Roles of Social Context and Emotion Socialization Practices.
Pamela W. Garner.
- A1.05 A Contextual Analysis of Toddler Positive Affect in the Daycare Setting.
Susan A. Holt, Rebecca M. Wood
- A1.06 Socio-Emotional Functioning and its Determinants in Infancy.
Hanna Liberska, Adam Mickiewicz.
- A1.07 Expression of Emotion in Infants with Disabilities.
Kay Rawlings, Sheila Glenn, Valerie Service.
- A1.08 How Toddlers with Severe Visual Impairments and their Mothers Respond to Ambiguous Stimuli.
Susan L. Recchia.
- A1.09 Shy Behaviour in Two Month-Olds: In Interaction with Adults and to Self in Mirror.
Vasudevi Reddy, Emma Williams.
- A1.10 Emotional Reactivity, Regulation and Caregiver Behavior.
Loretta A. Rieser-Danner, Jill S. Wetzell.

PIZZUTO, E.
PLATT, M.
PLUMERT, J.M.
PLUTH, S.
POIRIER, C.
POLKA, L.
POMERLEAU, A.
PORGES, S.W.
PORTALES, A.L.
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POULIN-DUBOIS, D.
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PRESSLER, J.L.
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PRINGLE, J.
QUERLEU, D.
QUINN, P.C.
RAINE, M.J.
RAISBECK, I.
RAMSAY, D.S.
RASCHKE, H.
RAUDENBUSH, S.
RAUH, H.
RAVER, C.
RAWLINGS, K.
RAYNA, S.
RECCHIA, S.L.
REDDY, V.
RED, C.
REILLY, J.L.
RENO, R.
RESTEMEIER, R.
REZNICK, J.S.
RHODA, M.
RHODES, J.
RICARD, M.
RICCIUTI, H.N.
RICHARDS, J.E.
RICHARDS, M.L.M.
RICHMAN, A.L.
RIDDELL, P.
RIEGEL, K.
RIESE, M.L.
RIESER-DANNER, L.A.
RIETH, C.
RIGNEY, L.
RITCHIE, S.L.K.
RITTER, J.M.
RIVERA, S.M.
RIVERA, Y.
RIVET, K.
ROBERTS, T.
ROBERTSON, S.S.
ROBESON, W.W.
ROBIN, D.J.
ROBIN, M.
ROBINSON, J.
ROBINSON, S.R.

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Vanderbilt University at Nashville.
St. John's University at Jamaica.
Children's Hospital of Pittsburgh.
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Washington & Jefferson College, Washington.
New York Hospital-Cornell Medical Center.
University of Miami School of Medicine.
UMDNJ-RWJMS at New Brunswick.
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University at Albany.
University of New England.
Cornell University, Ithaca.
University of New Hampshire.
University of Massachusetts at Amherst.
CNRS-INSERM, Paris
University of California, Los Angeles.
Binghamton University.

A1.11 Emotional Reactions to Experimentally Manipulated Voice Change: A Cross-Sectional Study of Infants Between 5 and 14 Months.
Klaus R. Scherer, Pierre Moumoud, Daniel Stern, Arvid Kappas, Anna Zinetti, Grazia Ceschì.

A1.12 The Infant's Face Expresses Appraisal and Action Tendencies -- And Thus Emotion.
Klaus Scherer.

A1.13 Infant Attention to the Emotions of Others.
Marian Sigman, Connie Kasari.

A1.14 What do We Learn About an Infant's Emotional Functioning in Social Referencing?
Teda A. Walden.

A1.15 Anger in One-Year-Olds and Its Relation to Earlier Individual Differences in Frustration.
Margaret Wolan Sullivan.

A1.16 Multiple Caregivers and the Development of Infants' Sense of Self and Other.
Libby Zimmerman

ROOM 32

A2.17 Perceived Infant Fussing and Crying Patterns in the First Year of Life in an Urban Community in Denmark.
Marissa Alvarez.

A2.18 Predictors of Empathy.
Frances Chikering.

A2.19 Emotion Regulation During the Still-Face Situation at 2 and 5 Months of Age.
Garford-Koepfel, Wendy Wagner Robeson, Nancy Keefe.

A2.20 Young Infants' Responding to Static and Dynamic Happy and Sad Expressions During a Social Interaction.
Louise Cossette, Martine Gaudreau, Elène Léveillé.

A2.21 Infant Behavioral and Physiological Reactivity to Doctors' Examinations: A Longitudinal Analysis.
Jordan Hart, Kathy Tont, Dornonick Wegesin.

A2.22 Adaptiveness of Infants' Coping Strategies.
Katherine Hildebrandt Karaker, Christine Nelson Ross.

A2.23 Infants' Responses to Pacifier Withdrawal in the First Three Months of Life.
Hui-Chin Hsu, Yvonne E. Bryan.

A2.24 Sensitivity to Standard Violations in Young Children.
Grazyna Kochanska, Atsuko Fukumoto.

A2.25 Effects of Locomotor Experience on Emotional Display During a Manual Search Detour Task.
R. Lloyd, R. Kermohan, J. Campos.

A2.26 Individual Differences in Young Infants' Differentiation Between Strangers and Mothers.
Patrice M. Miller.

A2.27 Do One-Year-Old Infants Show Referent Specific Responses to Emotional Signals?
Donna L. Mumme, Dana Won, Anne Fernald.

A2.28 The Relation of Emotional Reactivity in Infancy and Behavioral Style in Middle Childhood.
Phyllis Orr, Jeffrey Fagen.

A2.29 Smiling and Crying During the Still-Face Situation in 7-Month-Old Preterm VS. Full-Term Black Infants.
Laura Segal, Harriet Oster, Morris Cohen, Barbara Caspi, Michael Myers, David Brown.

ROOM 33

A3. SPEECH PERCEPTION AND PRODUCTION

A3.30 The Building up of the Voice by the Hearing and the Deaf Child at the Babbling Stage.
Gabrielle Konopczynski, Shirley Winter.

A3.31 Assessing the Development of Earlier-Talking Toddlers During the Transition from One-To Two-Word Speech: Language, Emotion, and Temperament.
Lorraine F. Kubicek, Diana S. Nikkari, Robert N. Emde.

17	Center for Early Learning at Cambridge.
11	Hofstra University, Hempstead.
43, 50	Children's University Hospital Munich.
24	University of Miami.
48	York University, Toronto..
48	Karen. Children's Hospital at Boston.
42	University of Trento.
32	McGill University, Montreal, Quebec.
46	Lab Comportement Animal INRA-CNRS, Nouzilly.
27, 32	University of Windsor
51, 56	University of California, Irvine.
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11, 52	New York University.
8, 54	Res. Center on Trad. Med.(CRM/T), V Reg., Mali
28	Free University, Amsterdam.
40, 56, 57	University of Central Lancashire.
38	Brooklyn College CUNY.
56	West Virginia University, Morgantown.
38	University of British Columbia, Vancouver.
17	California State University.
37	Virginia Polytechnic Institute, Blacksburg.
21	University of Pisa.
37	Children's National Medical Center, Washington.
19	University of Munich.
49	University of Munich.
24, 38	University of Firenze.
23	University of Virginia at Charlottesville.
56	University of Maryland at Baltimore.
32	Emory University, Atlanta.
45	CNRS Cognit. Neurosci, Marseille.
37	University of Maryland College Park.
58	University of Lisbon.
41	Inst for care of Mother and Child at Prague.
58	Institute of Psychiatry, London.
23	University of Firenze.
23	LAPsydec, Paris.
9	National Inst. Mental Health, Rockville.
38	Sunny Hill Health Center For Children.
12	University of Miami.
49	UD. University of Georgia, Athens.
9	UPpsala University Childrens' Hospital.
22	University of Toledo.
21, 46	University of Guelph.
26	Nova Univ. School of Psycho., Fort Lauderdale.
17	Illinois State University at Normal
52	Cornell University, Ithaca.
47, 57	University of Louisville.
57	Georgia State University at Atlanta.
57	University of Miami School of Medicine.
32, 52	USUPRA Research Unit at Lausanne.
18	University of Illinois at Champaign.
21	Virginia Polytechnic Institute.
50	University of Miami Medical School
23	University of Firenze.
54	University of Provence, Aix en Provence.
56	University of Virginia at Charlottesville.
21	St John's University.
32	University of Maryland at Baltimore.
2	ORISS, India.

OGSTON, K.
OHR, P.
OHRT, B.
OLLER, D.K.
OLSHANSKY, E.
OLSON
ONGARI, B.
ORAM, J.
ORGEUR, P.
ORR, R.R.
OSHIMA-TAKANE, Y.
OSOFSKY, J.D.
OSTER, H.
OUMAR, F.W.
OUT, L.
PADDEN, T.
PAGANO, M.
PAINTER, M.J.
PAINTER, S.L.
PALIUGHI, D.
PANLITON-COOPER, R.
PAOLICELLI, P.B.
PAPERIO, P.
PAPOUSEK, H.
PAPOUSEK, M.
PAPPA, M.G.
PARELIUS, A.E.
PARKS, P.L.
PARR, L.
PASCALIS, O.
PATEL, N.
PATRICIO, M.
PAUL, K.
PAWLBY, S.
PAZZAGLI, A.
PEACHEUX, M.G.
PEDERSEN, F.A.
PEGG, J.E.
PELAEZ-NOGUERAS, M.
PELLEGGRINI, A.
PESCARA-KOVACH, L.A.
PETERS, M.
PETERSON, L.
PHELPS, S.
PHILLIPS, A.T.
PHILLIPS, D.K.
PHILLIPS, W.E.
PICKENS, J.
PIERREHUMBERT, B.
PIERROUTSAKOS, S.L.
PIKALEK, L.A.
PIMM, J.B.
PINI, M.G.
PINOL-DOURIEZ, M.
PINTO, J.
PIOLI, L.
PIPER, S.
PISANI, L.

- A3.32 A Comparison of the Prosodic and Formant Characteristics of Infant-Directed and Adult-Directed Mandarin.
Andrea G. Levitt, Qi Wang, Melanie Morgon, Elizabeth Marshall, Jennifer Sullivan.
- A3.33 Development of ERPS to Speech and Nonspeech Stimuli During the First Two Years of Life.
Debra L. Mills, Lisa Dilulio, Sharon Coffey-Corina, Helen J. Neville.
- A3.34 Perception of Rhythmical Speech Units by Neonates.
Thierry Nazzi.
- A3.35 Predicting Language Performance at 5 Years of Age from Evoked Potentials Recorded at Birth.
Dennis Molfese, Leslie Gill, Sharon Benshoff.
- A3.36 Infant Perception of an English Allophone.
Judith E. Pegg, Janet F. Werker.
- A3.37 A Cross-Language Comparison of Vowel Perception in English-Learning and German-Learning Infants.
Linda Polka, Ocke-Schwen Bohn.
- A3.38 Infants' Sensitivity to the Noun-Category Bias During the Second Year.
Diane Poulin-Dubois, Susan A. Graham, Ilana Frank, Joanne Tilden.
- A3.39 A Semantic Function for Prosody in Infant-Directed Speech.
Susan M. Rivera.
- A3.40 Newborns Discriminate Stress Patterns in Phonetically Complex Italian Words.
A. Sansavini, J. Bertoncini, G. Giovanelli.
- A3.41 Electrocortical Activity and Attention to Babbling.
David W. Shucard, Valerie L. Shafer, Janet L. Shucard, Jeri J. Jaeger.
- A3.42 Six-Month Olds' Categorization of Infant Directed Prosody.
Melanie J. Spence, David S. Moore.
- A3.43 Temporal Segmentation of Speech by Infants.
Prentice Starkey, Alice Klein, Burton S. Rosner, Hui-Li Lin, Susan M. Rivera, Ann Wakeley.
- A3.44 Intrinsic Fo in the Babbling of French and American Infants.
D.H. Whalen, Andrea G. Levitt.
- A4. SPEECH PERCEPTION**
- A4.45 The Role of Stress in Speech to Infants.
Drema D. Albin, Catharine H. Echols.
- A4.46 Newborn Perception of Emotion in Voices.
Michelle Aldridge.
- A4.47 An Innate Component in Speech Perception.
Michelle Aldridge.
- A4.48 Detection of Melody Changes Presented to the Right or Left Ear in 8- To 9-Month-Old Infants.
Linda M. Anderson, Marie T. Balaban.
- A4.49 Relationships Among Infant Auditory Temporal Processing Thresholds, Perceptual-Cognitive Abilities and Language Development in the First Two Years.
April Ann Benasich, Paula Tallal.
- A4.50 Multivariate Assessments of Referential and Expressive Speech Styles at 30 Months.
Teresa Blicharski.
- A4.51 Infant's Pitch Perception: Number of Harmonics.
M.G. Clarkson, S. Miciek, R. Martin.
- A4.52 Newborns' Preference for their Native Language is Based on Right Lateralized Prosodic Processes.
Frances A. Davis, Anthony J. DeCasper.
- A4.53 Lateralization of Newborn Headturning to Speech and Heartbeat Sounds.
Lisa Ecklund-Flores.
- A4.54 Stylistic Differences in First Learning to Speak and Their Relationship to Neurological Functioning.
Roslyn Galligan.
- A4.55 Speech Discrimination in Noise by Neonates with Normal Auditory Sensitivity.
Angela G. Shoup-Pecenka.

ROOM 34

- MOORE, D.S.
MOORE, D.S.
MOORE, J.A.
MOORE, L.
MORANGE, F.
MOREAU, J.
MORGAN, J.L.
MORGAN, L.
MORGAN, R.
MORGON, M.
MORISSETTE, P.
MORRONGIELLO, B.A.
MORROW, J.D.
MORTON, J.
MOSER, M.
MOSS, H.
MOUNOUD, P.
MRAZEK, D.A.
MUENZ, L.R.
MUIR, D.W.
MÜLLER, B.
MULLETT, M.D.
MUMME, D.L.
MUNAKATA, Y.
MUNDY, P.
MURRAY, L.
MYERS, M.
NACHMIAS, M.B.
NADEAU, L.
NADEL, J.
NADER-GROSBOIS, N.
NAGEL, D.
NAKANO, S.
NATHANI, S.
NATHANIELSZ, P.W.
NAWROCKI, T.
NAZZI, T.
NEEDHAM, A.
NEFF, C.
NEILSON, J.
NELSON, C.A.
NELSON, J.
NEVILLE, H.J.
NEVILLE, K.E.
NEWBOLDT, E.
NEWELL, K.M.
NEWLIN, D.
NGUYEN, N.
NICHOLS, S.L.
NIKKARI, D.S.
NORCIA, A.M.
NORRIS, R.
NOTIDES, C.
NOZYCE, M.
NWOKAH, E.
O'BRIEN, Y.
O'DONNELL, K.
O'NEILL, D.K.
OAKES, L.M.
OEHLER, J.
- Pitzer Coll. & Claremont Grad. Sch. Claremont.
University of Texas at Dallas.
University of TX Medicine School at Houston.
Galveston.
LPBD, EPHE-CNRS, Paris.
Université du Québec à Montréal.
Brown University, Providence.
West Virginia University at Morgantown.
Emory University, Atlanta.
Wellesley College, Toronto.
University of Montréal.
University of Guelph.
Univ. of North Carolina, Chapel Hill.
MRC Cognitive Development Unit, London.
University Drive, Reston.
St. Luke's/Roosevelt Hospital Center at New York.
University of Geneva.
University of Wisconsin, Madison.
University of Pennsylvania, Philadelphia.
Queen's University, Kingston.
Free University of Berlin.
Penn. State University at Uniontown.
Stanford University.
Carnegie Mellon University, Pittsburgh.
University of Miami.
University of Cambridge, U.K.
New York University.
University of Minnesota at Minneapolis.
Laval University.
CNRS, Poitiers.
Fac. Psycho. Univ. Catholique de Louvain.
George Washington University, Saint-Louis.
Fuji Women's College, Sapporo.
Purdue University, West Lafayette.
Cornell University, Ithaca.
University of Maryland, College Park.
Lab Cognit. Sci Psycholing. CNRS-EHESS, Paris.
Duke University, Durham.
University of Illinois at Urbana-Champaign.
University of California at Santa Cruz.
University of Minnesota, Minneapolis.
University of Dundee.
Salk Institute Bio. Studies at San Diego.
University of Windsor.
George Washington University.
Pennsylvania State University.
Addiction Research Center/NIDA at Baltimore.
UCLA.
UCSD Medical Center, San Diego.
University of Colorado.
Smith-Kettlewell Eye Res Inst., San Francisco.
University of Illinois at Chicago.
LPBD, EPHE-CNRS, Paris.
Bronx Lebanon Hospital Center, Bronx.
Purdue University at West Lafayette.
University of Central Lancashire at Preston.
Duke University Medical Center at Durham.
Stanford University.
University of Iowa.
Duke University at Durham.
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35, 57
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27, 4
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28, 4
10, 12, 5
51, 5
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36, 5
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44, 5
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44, 5
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4

A4.56 The Effect of Spectral Composition on Melody Processing.
Laurel J. Trainor.

SPECIAL EVENTS

INFANTS OF DERESSED MOTHERS.

Tiffany Field.

I.C.I.S. Student Award

Chair: Edward Tronick.

Welcome Cocktail Party

Galerie

Grand Amphitheatre

Grand Amphitheatre

4.15-5.15 p.m.

Presidential Address

5.15-6.15 p.m.

6.30-8.30 p.m.

47, 57	Penn State University, University Park.
41	Queensland University of Technology at Red Hill.
18	UCSD.
57	University of Michigan at Ann Arbor.
17	University of New Hampshire.
23	University of Maryland Baltimore County.
25	Univ of R.I. Women Infants Hosp., Providence.
16, 23	University of Illinois.
29	Graduate Sch. & Univ Center City of New York.
51	Memorial University at St. John's.
44	Duke University Medical Center, Durham
51, 57	Gallaudet University at Washington.
38	University of New Hampshire.
32, 38	University of Pennsylvania.
58	Westminster College at New Wilmington.
14	Lab.Cognit.Sci Psycholinguist. EHSS-CNRS, Paris.
35	University of Texas, Austin.
43	Children's University Hospital Munich.
36	Roma, Italy.
39, 45	University of Washington, Seattle.
22	Lab. Ethologie Humaine, Université du Québec.
32	Monell Chemical Senses Center, Philadelphia.
31	Université de Provence, Aix en Provence.
26	Rutgers University, New Brunswick.
46	University of Iowa.
27	Near East N. Cyprus
31	Université François-Rabelais, Tours.
24, 50	University of Munich Children's Hospital.
25	DePaul University, Chicago.
12	University of Atlanta.
10	University of Poznan.
31	Columbia University College of P. & S.
43, 57	University of North Carolina at Chapel Hill.
28	Austin Hospital.
32	SUPPEA Research Unit at Lausanne.
48	S. University College London.
25	McGill Univ. Children's Hosp, Montreal
52	Washington Univ. School of Med at St. Louis.
11, 28	Harvard Med.Sch & Harvard Graduate Sch Educ
10, 12	Salik Institute, San Diego.
50	McGill University, Montreal.
16	University of Groningen.
48	Southwest Missouri State Univ at Springfield.
29	Graduate School & Univ. Center City of New York.
51	Institute of Psychology Russ. Acad Sci., Moscow.
49	University of Palermo.
51	Utah State University at Logan.
8, 43	Queensland University of Technology.
27	Crepeco Université de Provence, Aix en Provence.
12, 45	Southern Illinois University, Carbondale.
17	Southern Illinois University, Carbondale.
55	LaPSDEE, Paris.
32	University of Trento.
41	Duke University at Durham.
52	St. John's University at Jamaica.
45	McMaster University, Hamilton.
16	Università Cattolica di Milano
22	Pacific Lutheran University, Tacoma.
47	Dalhousie University at Halifax.
19	University Lab. of Physiology, Oxford.

McDONALD, P.V.
McDONNELL, J.
McDONOUGH, I.
McDONOUGH, S.C.
McGARVA, A.R.
McGOURTY, S.
McGRATH, M.M.
McHALE, J.L.
McKEEVER, N.
McKIM, E.M.
McKINNEY, R.
MEADOW-ORLANDS, K.F.
MEBERT, C.J.
MEDOFF-COOPER, B.
MEDVIN, B.M.
MEHLER, J.
MEIER, R.P.
MEISER, T.
MELANO, D.
MELTZOFF, A.N.
MENDONÇA, J.
MENNELL, J.A.
MERLEAU, P.
MERRIMAN, J.
MERRIMAN, J.D.
MERRYMAN, J.D.
MERTAN, B.
MEUDERC, M.
MEYER, R.
MICHEL, G.
MICIK, S.
MCCKIEWICZ, A.
MILENTJEVIC, I.
MILES, M.S.
MILGROM, J.
MILHAUD, K.
MILLAR, W.
MILLER, A.R.
MILLER, J.P.
MILLER, P.M.
MILLS, D.L.
MIND, K.
MINDE, R.B.
MITCHELL, D.W.
MITCHELL, J.
MITTIN, A.
MODERATO, P.
MOE, S.T.
MOHAY, H.
MOKA, C.
MOLFESE, D.L.
MOLFESE, V.
MOLINA, M.
MOLINA, P.
MOLTOR, A.
MOLTENI, J.
MONDLOCH, C.
MONTANARO, A.
MOON, C.
MOORE, C.
MOORE, D.

Friday, June 3

9-11 a.m. SYMPOSIA

(Invited Symposium)

S7. ASSESSMENT OF RISK IN EARLY INFANCY

ROOM 162

Convenor:

KARMEL, B.Z.

Contributions:

- 1) *Neurobehavioral Observations And Assessment Of The Preterm Infant.*
Heidelise Als.
- 2) *Assessment of risk in early infancy clinical application of neurofunctional research in the evaluation of high-risk neonates.*
Judith M. Gardner, Bernard Z. Karmel.
- 3) *The neurobehavioral assessment of the preterm infant.*
Anneliese Korner.

Discussant:

Claudine Amiel-Tison.

S8. FROM PERCEIVING SPEECH TO RECOGNISING LINGUISTIC STRUCTURE: THE PRELINGUISTIC FOUNDATIONS OF PHONOLOGICAL KNOWLEDGE.

ROOM 262

Convenor:

BEST, C.T.

Contributions:

- 1) *Perception of prosody and representation of speech units by neonates.*
Josiane Bertoncini.
- 2) *From sounds to speech.*
Peter W. Jusczyk.
- 3) *Changing input, changing perceptual abilities, and changing cognitive skills:
Toward a more comprehensive account of age-related changes in cross-language
speech perception.*
Janet Werker.
- 4) *An ecological account of early speech perception and its relation to emergent
phonological organization.*
Catherine T. Best.

Discussant:

Jacques Mehler.

S9. METHODOLOGICAL ISSUES IN INFANT OPERANT LEARNING.

ROOM 203

Convenor:

LOWE, C.F.

Contributions:

- 1) *Child Psychology as comparative Psychology: Are developmental studies and
behaviour analysis compatible ?*
J.H. Wearden.

LLOYD, R.
LLOYD, V.L.
LOBOSCHEFSKI, T.
LOCATELLI, A.
LOCKE, J.L.
LOCKMAN, J.J.
LONG, T.M.
LOUIS, B.
LOVELAND-CHERRY, C.J.
LOW, J.A.
LOWE, C.F.
LUDINGTON-HOE, S.
LUNDY, B.
LYDICK, S.
LYNCH, M.P.
LYYTINEN, H.
MAAG, L.
MAASSEN, J.
MACARI, S.
MACIASZCZYK-JEDEAU, S.
MACNEILAGE, P.
MADOLE, K.A.
MAHER, M.
MALCUIT, G.
MALINOWSKI, M.
MALPHURS, J.
MALVY, J.
MANCINI, J.
MANDICH, M.B.
MANDLER, J.M.
MANDYS, F.
MANGELSDORF, S.
MANRIQUE, B.
MANTOVANI, S.
MARACHALONIS, K.S.
MARCHETTI, G.
MARCOS, H.
MARKS, A.
MARLIER, L.
MARSHALL, E.
MARTIN, F.
MARTIN, R.
MARZOLF, D.P.
MASAKOWSKI, Y.R.
MATHENY, A.P.
MATHENY, L.
MATTIS, S.
MATZKO, M.
MAURER, A.
MAURER, D.
MAY, H.
MAZET, Ph.
McADAMS, L.
McCALL, D.D.
McCARTNEY, K.
McCLELLAND, J.
McCLINTOCK, M.
McCLOY, U.
McCLURE, J.
McCUNE, S.K.

University of California at Berkeley. 1
University of British Columbia. 30
University of Toledo. 4
Lab. Comportement Animal INRA-CNRS, Nouzilly. 2
Massachusetts General Hospital, Boston. 2
Tulane University, New Orleans.
Georgetown University Hospital, Washington. 19, 5
UMDNJ-RWJMS. 37, 40, 4
Case Western Reserve Univ.at Cleveland. 5
Queen's University. 2
University of Wales, Bangor. 14, 15, 4
UCLA. 42, 5
Florida International University. 3
George Mason University. 1
Purdue University, West Lafayette. 24, 4
University of Jyväskylä. 5
Austin Peay State University at Clarksville. 5
Free University of Berlin. 4
Karl-Franzens University. Gratz Austria 3
LPBD, EPHE-CNRS, Paris 2
University of Texas, Austin. 34, 3
Pennsylvania State University. 18, 4
West Virginia University at Morgantown. 5
Université du Québec à Montréal. 17, 42, 47, 5
University of Munich. 3
University of Miami School of Medicine. 2
CHU Bretonneau de Tours. 1
CNRS Neurosciences Cognitives, Marseille. 10, 2
West Virginia University. 38, 5
UCSD. 1
Inst.for Care of Mother and Child at Prague. 5
University of Illinois at Champaign. 2
CEDIHAC CEDI, Caracas. 2
Università di Milano. 1
Cornell University, Ithaca. 2
University of Firenze. 2
LaPsyDEE, Paris. 2
LPBD, EPHE-CNRS, Paris. 2
Université Louis Pasteur, Strasbourg. 2
Wellesley College, Toronto. 1
University of Québec. 2
University of Atlanta. 12, 2
University of Illinois. 2
Columbia University. 2
University of Louisville. 2
University of Minnesota. 2
Union College at Schenectady. 2
Brown University, Providence. 2
Krakow Pedagogical University. 2
McMaster University, Hamilton. 19, 44, 4
Waikato University. 2
Hôpital Avicenne à Bobigny. 2
Duke University Medical Center at Durham. 2
University of Massachusetts at Amherst. 2
University of New Hampshire. 11, 2
Carnegie Mellon University. 2
University of Chicago. 2
Memorial University. 2
New York University. 2
George Washington University. 2

KÜCHLER, E.
KUECKS-MORGAN, R.
KUMAR, A.R.
KVAS, E.
LABRELLE, F.
LAGASSE, L.
LAMARRE, G.
LAMB, M.E.
LAMBERT-LECONTE, C.
LAMOUR, M.
LANDRY, S.H.
LANGLOIS, J.H.
LANSINK, J.M.
LAPLANTE, D.P.
LARABEE, J.
LARSON, C.
LATASKE, C.
LATOCH, J.
LAUKKONEN, K.
LAWSON, E.
LE CAMUS, J.
LE MAYER-DRISSE, G.
LE NORMAND, M.T.
LE VINE, R.A.
LEAPER, C.
LEAVITT, L.A.
LEBOVICI, S.
LECANUET, J-P.
LECUYER, R.
LEE, K.
LEGENDRE, A.
LEGERSTBE, M.
LEHMANN, J.A. Jr.
LEHMERY, K.S.
LEBOT-FROMENT, C.
LEPPANEN, P.
LEBROUX, S.
LESERANCE, M.
LESTER, B.M.
LESTER, J.
LETOURNÉAU, M.
LEVIN, A.
LEVITT, A.G.
LEWIS, J.
LEVY, M.
LEVY, M.
LEWIS, T.L.
LEWKOWICZ, D.J.
LEYENDECKER, B.
LIBERSKA, H.
LIBORIO, B.
LICKLITER, R.
LIN, H-L.
LINAZA, J.
LINDAHL, L.B.
LINDBERG, L.
LIS, A.
LITTLE, C.
LITTLEFORD, C.

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Karl-Franzens University. Graz Austria
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NICHOD, Bethesda.
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California State University.
University of Iowa.
University of Windsor.
University at Albany.
NICHOD, Bethesda.
CHU Bretonneau de Tours.
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University of North Carolina.
Université de Toulouse Le Mirail.
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University of Wisconsin-Madison.
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Akron Craniofacial Center.
University of Wisconsin.
Fac Psycho. Université Catholique de Louvain.
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Université du Québec à Montréal.
Ontario Inst. Studies in Education at Toronto.
Okayama Prefectural Univ. at Soja.
Brown Univ. School Med. Providence.
Galeston.
University of Miami School of Medicine.
Children's Hospital, Tallin.
Wellesley College, Toronto.
University of Chicago.
Shaare Zedek Medical Center.
UMDNJ, New Brunswick.
Hospital for Sick Children, Toronto.
NYS Institute for Basic Research.
NICHOD, Bethesda.
University of Poznan.
Università Cattolica di Milano
Virginia Polytech Inst. & State Univ., Blacksburg.
University of California at Berkeley.
Universidad Autónoma de Madrid.
Göteborg University.
Uppsala University.
Roma, Italy.
Yale University, New Haven.
University of California, Los Angeles.

XII

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2) Infants' acquisition of food preferences.
P.F.J. Fleming, P.J. Horne, C.F. Lowe, J.H. Griffiths.
3) Some methodological issues in the infant operant-learning literature.
Jacob L. Gewirtz.
4) Conditioning in the infants: New trends for the study of early cognitive development?
Viviane Pouthas.
S10. FETAL SENSORY EXPERIENCE.
Convenor: KRASNEGOR, N.A.
Contributions:
1) Fetal auditory experience.
William P. Fifer.
2) Proprio-somesthetic sensitivity of the fetus.
Jean-Pierre Lecannuel, Isabelle Porton.
3) Fetal chemosensory experience.
Scott R. Robinson, William P. Smotherman.
(Invited Symposium)
S.11 CAREGIVER-INFANT INTERACTION AND CULTURAL CONTEXT. ROOM 212
Convenor: BORNSTEIN, M.H.
Contributions:
1) Parent-infant interaction from a cross-cultural perspective.
Heidi Keller, Athanasios Chasiotis, Susanne Völker, Ulrike Zach
2) Mother-infant interaction interpreted in terms of culture.
Marc H. Bornstein.
3) Caregiver-infant interaction in rural Kenya and the United States.
Marian Sigmán, Leila Beckwith, Sarale Cohen.
4) The multiple caretaker paradox: Some data from Israel and Holland.
A. Sagi, M.H. Van IJzendoorn.
(Invited Symposium)
S12. SPECIFICITIES AND COMMUNITIES IN EARLY SENSORY FUNCTIONING.
Convenor: BLOCH, H.
Contributions:
1) Neural net computation for acquisition of invariant recognition and visually-guided reaching movement by infants.
Y. Burnod, L. Bouikhalil, E. Otto, E. Gary-Bobo.
2) The arguments of early visual dominance in normal and visual deprived infants.
E.A. Sergienko.
3) In cognitive organization specified at the beginning of development? the example of preterm infant in incubator.
Daniel Meller.
4) Developmental precedence and intersensory influence.
Gerard Turkewitz.

ROOM 206
ROOM 212
ROOM 241

9-12 a.m.

WORKSHOP

W2. ATTENTION, COMMUNICATION AND COGNITION IN INFANTS Amphi J.

Convenors:

KALVERBOER, A.F.
GENTA, M.L.

Contributions:

- 1) *Patterns of sensitive mother-infant interaction and contingency learning in full-term infants.*
Antonella Brighi.
- 2) *Rigidity, sensitivity and the quality of attachment in premature infants.*
Butcher, P.R., Kalverboer, A.F., Minderaa, R.B., Dormaal, E.F., van, Ten Wolde, Y.
- 3) *Facial expressions in mother-infant communication.*
Costabile, A., Genta, M.L., Tenuta, P.
- 4) *Early transitions in visual attention: an interdisciplinary longitudinal study.*
Alex F. Kalverboer.
- 5) *Cognition in preterm and full-term infants.*
Mathijs P.J. Vervloed.
- 6) *Mother-infant interaction and contingency learning in preterm infants.*
Lex Wijnroks.

8.30-10.30 a.m.

POSTER SESSIONS

B1. PARENTING

ROOM 7

- B1.01 Determinants of Variations in Parental Affect Socialization: Implications for the Development of Emotion Regulation.
Marcela C. Acevedo, Keith A. Crnic, Jay Belsky.
- B1.02 Transition to Parenthood: Sense of Competence Among Preterm and Fullterm Parents.
Christine Bolté, Réjean Tessier, Christiane Piché.
- B1.03 Characteristics of Parents and Infants Who Start Day Care Within the First Three Months Postpartum.
S.A. Boyle.
- B1.04 Relational and Intergenerational Processes Underlying Parenthood Choice as Predictors of Parent-Infant Attachment Bond.
Lucia Carli, Susanna Mantovani, Barbara Liborio, Anna Montanaro.
- B1.05 Adult Attachment Security and Parent-Child Interaction Patterns.
Lisa E. Crandell, Hiram E. Fitzgerald.
- B1.06 Relationships Between Parenting Stress and Developmental Functioning Among 2-Year-Olds.
Gary Creasey, Patricia Jarvis.
- B1.07 Determinants of Parenting in a Rural, Low SES Sample, Compared to a Middle Class Sample.
Margaret Fish.
- B1.08 Relation Between Infant-Mother Attachment and Marital Adjustment in a Quebec Sample.
A. Fraser, J. Gagnon, G.M. Tarabulsy, J. Laganière, R. Tessier, C. Piché.
- B1.09 Marital Satisfaction: Associations with Mother-Father-Infant Interaction.
Cynthia A. Frosch, Jean L. McHale, Tara J. Hebl.
- B1.10 Effects on Infant Birth Order on Parenting in the First Year.
Judith A. Heermann, L. Colette Jones.

JONGMANS, M.

JOSSE, D.

JOUE, F.

JULIEN, M.

JUNG, P.

JUSCZYK, P.W.

KAGAN, J.

KAHANA-KALMAN, R.

KAIRAM, R.

KAISER-PERMANENTE

KAITZ, M.

KALMAR, M.

KAMM, K.

KAPLAN, P.

KAPPAS, A.

KARMEL, B.Z.

KARNS, J.

KARRAKER, K.H.

KARUZA, J.

KASARI, C.

KASPER, M.A.

KATZ, K.S.

KAVANAUGH, R.D.

KAWAKAMI, K.

KAYE, K.L.

KEEFE, N.

KELLER, H.

KERMOIAN, R.

KIM, I.

KIMMERLE, M.

KIMPO, C.

KINDLON, D.

KING, F.

KIRSH, S.J.

KISILEVSKY, B.S.

KLATT, L.

KLEIN, A.

KLEIN, P.J.

KLIEGMAN, B.

KLINNERT, M.D.

KNOBLAUCH, K.

KNOX, V.

KOCH, D.

KOCHANASKA, G.

KOGAN, N.P.

KOLSTAD, V.

KONOPCZYNSKI, G.

KOO, H.H.

KORNER, A.

KORNHABER-LE CHANU, M.

KOTOVSKY, L.L.

KOTWICA, K.

KOWALENKO, N.

KOZLOWSKI, E.

KRASNEGOR, N.A.

KREPPNER, K.

KRECHMAR, M.

KRINSKY-MCHALE, S.J.

KRUEGER, K.

KUBICEK, L.F.

Hammersmith Hospital, London.

CNRS - INSERM, Paris

LENA CNRS, Paris.

Université du Québec à Montréal.

University of Colorado at Denver.

State University of New York, Buffalo.

Harvard University, Cambridge, MA.

Rutgers University, New Brunswick.

St. Luke's/Roosevelt Hospital Center at New York.

University of Miami School of Medicine.

Shaare Zedek Medical Center.

Eötvös University of Budapest.

University of Chicago.

University of Colorado at Denver.

University of Geneva.

NYS Inst. for Basic Res., Staten Island.

University of Nebraska at Lincoln.

West Virginia University at Morgantown.

State College at Buffalo.

University of California at Los Angeles.

University of North Carolina at Chapel Hill.

Georgetown University Hospital, Washington.

Williams College, Oxford.

University of the Sacred Heart at Tokyo.

University of Texas at Dallas.

University of New Hampshire.

University of Osnabrück.

University of California of Berkeley.

University of Nebraska.

University of Windsor.

UCSD Medical Center, San Diego.

Cambridge, MA.

University College London

Washburn University at Topeka.

Queen's University.

Mass. Institute of Technology, Cambridge, MA.

University of California at Berkeley.

University of Washington.

Rainbow Babies & Childrens Hospital, Cleveland.

University of Wisconsin.

INSERM, Cerveau et Vision Lyon-Bron.

California State University.

University of South Florida at Tampa.

University of Iowa

Yale University, New Haven.

University of Illinois at Champaign.

University of Besançon.

University of Ulsan, and Case Western Reserve.

Stanford University, Palo Alto.

Université René Descartes, Paris

UCLA.

DePaul University, Chicago.

Arndell Unit. at Sydney.

NYS Institute for Basic Research.

Center for Mothers and Children, Rockville.

Max Planck Inst Human Dev. Educ, Berlin.

UCLA.

Brooklyn College of CUNY.

University of Minnesota, Minneapolis.

University of Colorado at Denver.

- B1.11 Pre-Birth Marital Interaction and Post-Birth Family Development.
C. Heinicke, D. Guthrie.
- B1.12 Gender Differences in Terms of Separateness-Closeness Between Parents and their 9 Months-Old Infants.
Lisbeth B. Lindahl, Mikael Heimann.
- B1.13 Causal Modelling of Adaptation to Motherhood from the Prenatal to Early Postpartum Period.
Tannis MacBeth Williams, Leona S. Aiken, Ray Reno, Susan Lee Painter.
- B1.14 Variables Related to Change in Marital Satisfaction During the Transition to Parenthood.
A.R. McGarva.
- B1.15 Change in Parental Characteristics Across the Transition to Parenthood.
Lisa Soderberg.
- B1.16 Psychotherapy as Positive Intervention for Foster Children who are Uprooted and Abused.
Mary L. Cox, Gilbert Foley.
- B1.17 Infantile Autism: Functional Evaluation of Early Signs Based Upon Home Movies.
J. Malvy, J.L. Adren, C. Lataste, D. Sauvage.
- B2 EVALUATION - PREDICTION**
- B2.18 Discriminant Validity of the Qualifier Scoring System for Toddlers (QSS-T).
Marjorie Beeghly, T.B. Brazellton.
- B2.19 Reliability and Stability of Visual Expectation and Reaction Time from Two Three Months.
Michael Brzysnyak.
- B2.20 An Investigation into the Internalization of Gender as a Determinate of Socially Successful Collaborative Behaviors Through Infant and Toddler Self-Identification.
Linda Carson Shuder.
- B2.21 The Study on the Utility of the Fagan Test of Infant Intelligence (FTII) with Korean Full-Term and Premature Infants.
Hyeon Park Choi, Hong-Hoe Koo, You-Me Han, Joseph F. Fagan.
- B2.22 The Relationship Between Early Habituation and Later Temperament.
Wallace E. Dixon, Martine Sanscraine.
- B2.23 Longterm Effects in High School After Enrichment in Infancy.
W. Fowler, K. Ogston, G. Roberts-Flati, A. Swenson.
- B2.24 Prediction of Mental Development of Infant from At-Risk Families.
Marie Julien, Gerard Malcuit, Andree Pomerleau, Ginette Lamerre, Jacques Moreau, Renee Seguin.
- B2.25 Specific Features of Mother-Infant Relationships as Predictors of Toddlers' Symbolic Competence.
Judith Harel, Anat Scher.
- B2.26 Numbers of Biomedical and Social Risks: Multidimensional Influences on Intelligence.
Victoria Mollise, Lisabeth Dillalla, Steve Pluth.
- B2.27 Links Between Infant Behaviors and the Reliability and Variability of an Information Processing Measure.
Judy D. Morrow, Bonnie W. Camp.
- B2.28 Pathways from Infant Visual Recognition Memory to Later IQ.
Susan A. Rose, Judith F. Feldman.
- B2.29 Behavioral Patterns and Affective Involvement in Mother-Infant Interaction and Later Cognitive Development.
Anat Scher, Eva Farberoff, Judith Harel.
- B2.30 Prediction of Psychoeducational Status at 6 Years from Bayley Scales of Infant Development Scores.
S. Widmayer, W.J. Burns, L. Peterson, S. Tanner, S. Valley, K. Burns.
- B3 OBJECT CONCEPT AND NUMEROSITY**
- B3.31 Infants' Reasoning About Containment Events
Andrea Aguilar.
- B3.32 Drawing Activity 3-4 Years Old Children and Early Development.
Vera Brofman.

ROOM 33

- 31, 44 Bronx Lebanon Hospital Center, Bronx.
- 48 Tavistock Clinic & U. College, London.
- 32 Republic of Singapore.
- 43 Vanderbilt University at Nashville.
- 36 University of North Carolina, Chapel Hill.
- 36 Children's Hospital of Pittsburgh.
- 45 Longboat Key.
- 19 University Laboratory of Physiology, Oxford.
- 37 University of New England.
- 10, 18, 47 University of Minnesota.
- 35 University of Texas, Austin.
- 47 University College London.
- 40, 41 Free University at Amsterdam.
- 56 University of Chicago.
- 45 Emory University, Atlanta.
- 52 Case Western Reserve University at Cleveland.
- 15, 49 University of Wales, Bangor.
- 28 McGill University, Montreal.
- 34, 50 University of California, Los Angeles.
- 11, 41 Duke University at Durham.
- 32 Duneidin.
- 32 Oklahoma State University at Stillwater.
- 57 Maternite Port-Royal, Paris.
- 38 National Inst. of Mental Health, Rockville.
- 36 Douglas Hospital Centre.
- 36 Mass. Institute of Technology, Cambridge, MA.
- 18 Thomas Coram Research Unit, London.
- 25 SSED/NICHD.
- 32 University of Utrecht.
- 57 University of Maryland.
- 18 University of Chicago.
- 22 Pacific Lutheran University, Puyallup.
- 48 San Diego.
- 39, 50 Wayne State University at Detroit.
- 27 Moscow.
- 39, 50 Wayne State University at Detroit.
- 43 UCLA.
- 27 LPHD, EPHB-CNRS, Paris.
- 38 University of Munich.
- 42 SUNY at Buffalo.
- 41, 42 Xavier University at Cincinnati.
- 37, 47 Albert Einstein Coll. Med., New York.
- 57 Hospital for Sick Children at Toronto.
- 42 Kennedy Krieger Institute at Baltimore.
- 16, 52 Illinois State University, Normal.
- 52 Jeffers, C.
- 22 University of Colorado at Denver.
- 27 St John's University.
- 43 Universite de Toulouse le Mirail.
- 43 University of Maryland at Baltimore.
- 57 University of Washington at Seattle.
- 42 West Virginia University at Morgantown.
- 52 Kennedy Krieger Institute at Baltimore.
- 27 Carnegie Mellon University at Pittsburgh.
- 18, 51 University of Cornell at Ithaca.
- 9 University of Rochester.
- 16, 52 University of Georgia, Athens.
- 51 University of Nebraska College of Nursing, 16 JONES, L.C.
- 51 University of San Diego.

- HOBERMAN, M.
- HOBSON, P.
- HOCHMAN, J.D.
- HOFFMAN, E.L.
- HOFFMEIER, J.A.
- HOFKOSH, D.
- HOGAN, A.
- HOGAN, S.
- HOGAN, S.
- HOLT, G.
- HOLT, S.A.
- HOLZRICHTER, A.
- HOOD, B.
- HOOPER, R.
- HOPKINS, B.
- HOPKINS, J.
- HOPKINS, W.D.
- HORAN, M.
- HORNE, P.J.
- HOUGH-EYAMBE, W.
- HOWARD, J.
- HSU, H-C.
- HUBBARD, P.M.
- HUBBS-TAIT, L.
- HUBIN-GAYTE, M.
- HUFFMAN, L.C.
- HUGHES, S.M.
- HUNTLEY-FENNER, G.
- HURRY, J.
- HWANG, C.P.
- INGLEBY, J.D.
- INSABELLA, G.M.
- IVERSON, J.M.
- IVES, D.
- JACKSON-MALDONADO, D.
- JACOBSON, J.L.
- JACOBSON, S.G.
- JACOBSON, S.W.
- JACOBVITZ, D.
- JACQUET, A.Y.
- JACQUEIT, T.
- JAEGER, J.J.
- JAFFE, J.
- JANKOWSKI, J.J.
- JANUS, M.
- JANUSS, D.L.
- JARVIS, P.
- JEFFERS, C.
- JEFFREY, W.
- JEUNIER, B.
- JEWEL, J.
- JING, S.
- JOHNSON, C.
- JOHNSON, G.
- JOHNSON, M.
- JOHNSON, S.L.
- JOHNSON, S.P.
- JONES, I.
- JONES, L.C.

- B3.33 Four-Month-Old Infants Use Support Cues to Perceive the Unity of Stationary, Partially Occluded Objects.
Lincoln G. Craton.
- B3.34 Infants' Predictive Head Turning and Reaching for Fully Visible and Occluded Objects.
Claes von Hofsten, Elizabeth Spelke, Qi Feng, Peter Vishton.
- B3.35 Searching for Falling Objects in 2-Year-Old is Different from Watching them Fall in 4-Month-Olds.
Bruce Hood.
- B3.36 Visual Cues that Support Perception of Object Unity in Young Infants.
Scott P. Johnson, Richard N. Aslin, José E. Náñez.
- B3.37 What Infants Know About Animals and Vehicles.
Laraine McDonough, Jean M. Mandler.
- B3.38 Rethinking Object Permanence: Do the Ends Justify Means-Ends?
Yuko Munakata, James McClelland, Mark Johnson, Robert Siegler.
- B3.39 The Bigger Picture: Infants' Differential Manual Exploration of Depicted Objects.
Sophia L. Pierroutsakos.
- B3.40 Reasoning About Support in 4.5-Month-Old Infants.
Helen Raschke.
- B3.41 Reaching Beyond Infant Forgetting.
J. Steven Reznick, Michelle Bosquet.
- B3.42 Physiological Correlates of Cognitive Behaviors in 6 to 12 Month Old Infants.
Anne B. Schubert, Glendessa M. Insabella.
- B3.43 Infants' Ability to Individuate and Trace Identity of Object.
Fei Xu, Susan Carey.
- B3.44 The Pushers and the Shakers: Infants' Recognition of Appearance-Action Relationships.
Dianna Zaring, Kelly L. Madole.
- B3.45 The Representations Supporting Infant Addition.
Susan Carey, M. Claudia Uller, Gavin Huntley-Fenner, Laura Klatt.
- B3.46 Knowing a Meaning for "Three": Visual Expectations in 5-Month-Old Infants.
Elliott G. Smith.
- B4. OBJECT PLAY** **ROOM 34**
- B4.47 Looking at the Mother: A Longitudinal Study of the Information-Gathering Process of Social Referencing.
Louise Allard, Marcelle Ricard, Thérèse Gouin-Décarie, Stéphane Desrochers.
- B4.48 Regularities and Irregularities in Maternal Responsiveness: Their Role in Contingency Learning and Search of Hidden Object.
Catherine Ayoun.
- B4.49 Parent-Child Interaction Around Teaching Tasks: A Codification System.
C. Barajas, M.L. De La Morena.
- B4.50 An Observational Study: Imitation, Play, Social Interaction and Evidence of Theory of Mind in Autistic Children and Adults and in Non-Autistic Children.
Julie D. Brown, Andrew Whiten.
- B4.51 Social Environmental Correlates of Infant Exploratory and Mastery Motivation.
E. Connors, S.M. Glenn.
- B4.52 Co-Occurrence of Social and Cognitive Play Behaviors in Preschoolers During Free Play Activities.
Annette D. Groen, Kristin L. Droege.
- B4.53 Traditional Infant Motor Plays in Korea.
Kenn Lee.
- B4.54 Joint Attention's Longitudinal Study: First Results.
Bénédicte Rousseau, Catherine Tourrette.
- B4.55 Maternal Scaffolding of Attention during Interactions with Objects in 3-to 8-Month-Old Infants.
Josette Ruel, François Findji, Marie-Germaine Pêcheux.
- B4.56 Developmental Processes in Object Involvement in Italian-Canadian Mothers and Infants.
Elizabeth Stevens, Joanna Blake.

- GROEN, A.D. University of California at Los Angeles. 1
- GUERINI, C. LPBD, EPHE-CNRS, Paris. 2
- GUIDETTI, M. University of Poitiers. 4
- GUNNAR, M. University of Minnesota, Minneapolis. 3
- GUTHRIE, D. UCLA. 1
- HAAR, R.A. University of Toledo. 21, 4
- HAGEKULL, B. Uppsala University. 22, 32, 5
- HAINLINE, L. Infant Study Center at Brooklyn. 35, 37, 51, 5
- HAINS, S.M.J. Queen's University. 22, 2
- HALL, S. University of Dundee.
- HALPERN, L.F. Union College at Schenectady. 8, 5
- HAMER, R.D. Smith-Kettlewell Eye Res.Inst., San Francisco. 3
- HAMMOND, M. University of Washington. 3
- HAMMOND, M.V. Univ. of TX Med. School, Houston. 2
- HAN, Y-M. University of Ulsan, and Case Western Reserve. 1
- HANEY, M. California State University. 3
- HANNA, E. University of Washington. 10, 3
- HANNAN, K. Pennsylvania State University, University Park. 3
- HANS, S.L. University of Chicago. 5
- HAREL, J. Haifa University. 1
- HARKINS, D.A. Children's Hospital at Boston. 2
- HARMON, R.J. University of Colorado, Denver. 3
- HARRIS, M. Royal Holloway University of London, Egham. 3
- HARRIS, P.L. Williams College, Oxford. 2
- HARRIS, S. La Palma. 38, 5
- HART, A.D. Utah State University at Logan. 5
- HART, B. University of Kansas, Lawrence. 19
- HART, J. Institute of Child Development of Minneapolis. 1
- HART, S. University of Miami School of Medicine. 4
- HATWELL, Y. University of Pierre Mendes France, Grenoble. 4
- HAUSER, M. Harvard University, Cambridge, MA. 3
- HAY, D. Institute of Psychiatry, London. 1
- HAY, D. Institute of Psychiatry, London. 2
- HAY, D.A. LaTrobe University, Australia. 32, 2
- HAY, D.A. LaTrobe University, Bundoora, Australia. 2
- HAYNES, O.M. NICHD. 2
- HAYUT, I. Yeshiva University. 2
- HAZAN, L. New York University. 2
- HEATON, N. University of Maryland at Catonsville. 4
- HEBL, T.J. University of Illinois. 1
- HEERMANN, J.A. University of Nebraska College of Nursing. 16, 2
- HEIMANN, M. Göteborg University. 17, 2
- HEINICKE, C. UCLA.
- HENDERSON, S.E. Hammersmith Hospital, London.
- HENRY, M. Queensland University of Technology at Red Hill. 19, 4
- HEPPER, P.G. Queen's University of Belfast. 4
- HEPWORTH, J.T. Vanderbilt University at Nashville. 4
- HERIZA, C.B. University of Illinois at Chicago. 4
- HERNANDEZ-REIF, M. Florida International University at Miami. 37, 2
- HERTSGAARD, L.A. University of Minnesota. 2
- HERZBERG, C. Penn. College of Optometry at Philadelphia. 38, 2
- HERZOG, E.W. Tufts University, Medford.
- HESPOS, S.J. Emory University, Atlanta.
- HICKEY, J. National Institute of Drug Abuse.
- HILDEBRANDT, R. Free University at Berlin. 11, 42, 26
- HILL, J.M. NICHD/LDN, Bethesda. 26
- HIMEL, N. Ontario Inst. for Studies in Educ., Toronto. 42
- HINDMARSH, G. Queensland University of Technology.
- HIPWELL, A.E. Institute of Psychiatry at London. 20, 24
- HITCHCOCK, D.F.A. Rutgers University, New Brunswick.

- B4.57 The Thorpe Interaction Measure (TIM): A Standardised Assessment of Parent Behaviour in Sharing a Picture Book with their Child.
Karen Thorpe, Patrick Bell.
B4.58 From Perceiving Events to Creating Events. Development of Early Object Exploration in Mother-Child Dyads.
Lieslotte Van Leeuwen, Ruth Kaufmann-Hayoz, Franz Kaufmann, Daniel Walther.
B4.59 Measurement of Parent-Child Interactions Related to Language Development.
Dale Walker, Betty Hart, Charles Greenwood, Judith Carta.
B4.60 Toddlers' Comprehension of Pretend Causal Sequences.
Arlene S. Walker-Andrew, Ronit Kahana-Kalman.

SYMPOSIUM

11 a.m.-1 p.m.

S13. FAMILY SYSTEMS ANALYSES OF INTERGENERATIONAL TRANSMISSION OF DEPRESSION.

Convenor:

SAMEROFF, A.

Contributions:

- 1) Effects of combined mother and father mental health on functioning of families with infants.
Arnold Sameroff, Lisa Hayden, Allison Baruf.
2) Family functioning and home environment in children at risk for depression.
Ronald Seifer, Mashia Schiller, Marilyn Matzko.
3) Family functioning and attachment in children at risk for depression.
Susan Dickstein, Ronald Seifer.

S14. SCHOOLAGE PERFORMANCE OF INFANTS BORN AT RISK: BEYOND THE IQ SCORE.

Convenor:

KATZ, K.S.

Contributions:

- 1) Impact of intraventricular haemorrhage and prematurity on cognitive attention processes at schoolage.
Kathy S. Katz, Lilly Dubowitz, Sheila E. Henderson, Marian Jongmans.
2) Neuropsychological outcome and adjustment to kindergarten in ECHO-treated neonates.
Ann Wagner, Penny Glass, Patricia Papero.
3) Developmental outcome at school age of children born premature.
Toby M. Long, Kirsten Sippel.

S15 THE EFFECTS OF EXPERIENCE ON PERCEPTUAL DEVELOPMENT.

Convenor:

MAURER, D.

Contributions:

- 1) The visual development of children treated for congenital cataract.
Terri L. Lewis, Daphne Maurer, Henry P. Brent.
2) Development and plasticity of binocular hearing.
David Moore, Sarah Hogan.
3) Overproduction in the development of the human visual cortex and thalamus.
L.J. Garey.

ROOM 203

ROOM 262

ROOM 162

11	University of Iowa.
57	University of North Carolina at Chapel Hill.
37	Albert Einstein Coll. of Medicine, New York.
16, 22	Laval University.
41	Queensland University of Technology at Red Hill.
41	University of New Hampshire.
11	Australian National University.
12	NICHD.
27	George Washington University, Washington.
38, 57	LENA, CNRS, Paris.
14, 38, 39, 51	NYS Institute for Basic Research.
19	Charling Cross-Westminster Med. School, London.
10	University of Houston-Clear Lake.
27	Université du Québec à Montréal.
42	Silicon Valley Child Dev. Found., Milpitas.
11	Université du Québec à Montréal.
36	UMBC, Baltimore.
16	University of Firenze.
31	Northwestern University, Boston.
43	UCLA.
50	Duke University Medical Center at Durham.
21	University of Minnesota Hospital and Clinic.
37	Hôpital Ste Marguerite, Marseille.
22	Yeshiva University, Bronx, N.Y..
31	Hungarian Academy of Sciences, Budapest.
15	Florida International University.
44	Bronx Lebanon Hospital Center, Bronx.
56	University of Kansas at Lawrence.
12	Southern Illinois University, Carbondale.
51	Carnegie Mellon University at Pittsburgh.
50	Duke University Medical Center at Durham.
12, 55	University of Bologna.
26	Université de Montréal.
19	Children's National Medical Center, Washington.
10, 18, 38, 47	University of Central Lancashire at Preston.
21	Yale University, New Haven.
35	University of Lisbon.
41	The Children's Hospital, Denver.
20	Yeshiva University, Bronx, N.Y..
22	University of Lisbon.
38, 56	West Virginia University at Morgantown.
38, 56	University of California at Davis.
48	Concordia University, Montreal.
31	University of Kansas at Lawrence.
56	University of Massachusetts at Amherst.
26	Concordia University, Montreal.
12, 31, 37	Laval University at Québec.
43	LPBD, EPHB-CNRS, Paris.
27	University of Chicago.
47	Children's University Hospital Munich.
37	University of New England, Brighton.
24, 57	University of Munich Children's Hospital.
47	Queensland University of Technology.
39	Hebrew University, Jerusalem.
23	University of Illinois.
19	University of Kansas, Lawrence.
42	Kennedy Krieger Institute at Baltimore.
9	FUKUMOTO, A.
5	FUNK, S.
1	FUTTERWEIT, L.R.
1	GAGNON, J.
1	GAHAN, D.
1	GALFORD-KOEPPEL, D.
1	GALLIGAN, R.
1	GALPERIN, C.
1	GAMMAN, J.
1	GAPENNE, O.
1	GARDNER, J.M.
1	GARDNER, L.J.
1	GAREY, T.J.
1	GARNER, P.W.
1	GARNIER, C.
1	GARNIER, C.
1	GENTNER, D.
1	GEORGE, C.
1	GEORGI, G.
1	GEORGIEFF, M.K.
1	GERPNER, B.
1	GER, J.
1	GERVAI, J.
1	GEWIRTZ, J.L.
1	GIBB, D.
1	GIFFORD, J.J.
1	GILL, L.
1	GILMORE, R.
1	GINGRAS, J.
1	GIOVANELLI, G.
1	GIROUARD, P.C.
1	GLASS, P.
1	GLENN, S.M.
1	GLICK, M.P.
1	GOLDMAN, S.L.
1	GOLDSCHMIDT, T.
1	GOLDSMITH, H.H.
1	GOLDSON, E.
1	GOLDSTEIN, A.
1	GOMES-PEDRO, J.
1	GOODMAN, I.J.
1	GOODWIN, S.
1	GOODZ, N.S.
1	GORMAN, S.A.
1	GOUBET, N.
1	GRAHAM, S.A.
1	GRANGER, M.
1	GRANIER-DEPERRE, C.
1	GRATTAN, M.P.
1	GRAUERT, B.
1	GRAUPNER, L.
1	GRAY, P.
1	GREENBAUM, C.W.
1	GREEN, V.
1	GREENWOOD, C.
1	GREENE, C.
1	GREER, M.

- 4) *Experience cannot entirely account for developmental changes in cross-language speech perception.*
Janet F. Werker.

S16 BRONCHOPULMONARY DYSPLASIA (BPD): BEHAVIORAL, FEEDING AND DEVELOPMENTAL ISSUES. ROOM 206

Convenor:
GOLDSON, E.

Contributions:

- 1) *Acquired behavior patterns in infants with bronchopulmonary dysplasia (BPD).*
J. Browne.
- 2) *Effects of bronchopulmonary dysplasia (BPD), very low birthweight (VLBW) and maternal distress on early feeding interactions.*
L. Singer, M. Davallier, T. Yamashita.
- 3) *Bronchopulmonary dysplasia (BPD), in preterm (PT), very low birthweight (VLBW) infants: Developmental outcomes and relations to changes in maternal behaviors.*
S.H. Landry, K.E. Smith, P.R. Swank.

S17 INTERPRETING AND NEGOTIATING INTENTIONS IN INTERACTION. ROOM 208

Convenor:
REDDY, V.

Contributions:

- 1) *Maternal interpretations of infant intentions.*
M. Suzanne Zeedyk.
- 2) *Developmental changes in young children's understanding of their mothers' play intentions during playful teasing.*
Shigeru Nakano.
- 3) *Negotiating playful intentions: Teasing in infancy.*
Vasudevi Reddy.
- 4) *The negotiation of intention in the play of the five year-old children of depressed and well mothers.*
Lynne Murray, Alison Hipwell.
- 5) *Shy behaviour in two month-olds: In interaction with adults and to self in mirror.*
Vasudevi Reddy, Emma Williams.

S18. EARLY SOCIAL EXPERIENCES IN EURO-AMERICAN, CENTRAL AMERICAN AND GERMAN FAMILIES. ROOM 212

Convenor:
LAMB, M.E.

Contributions:

- 1) *Ecologies of euro- and central-american families living in the United States and middle- and lower-middle class families living in Costa Rica.*
Maria P. Fracasso, Michael E. Lamb, Delia Miranda Fricke.
- 2) *The importance of the ecological context of early social learning situations and mother-child-interactions for the development of three-month-old infants: A comparison of firstborn and laterborn children.*
B. Buch, M. Biener.

EVANS, L.	University of Maryland at Baltimore.	40
EYLER, F.D.	University of Florida at Gainesville.	50, 5
FABER, M.	University of Toledo.	41
FAGAN, J.F.	University of Ulsan, and Case Western Reserve.	1
FAGARD, J.	LPBD, EPHE-CNRS, Paris.	2
FAGEN, J.	St. John's University.	11, 2
FAGOT, B.I.	University of Oregon, Eugene.	3
FAGOT, J.	CNRS Cognitive Neurosciences, Marseille.	4
FARBEROFF, E.	Haifa University.	1
FARNETTI, A.	University of Bologna.	5
FARNETTI, P.	Department of General Psychology, Firenze.	50
FAUCON, A.	McGill University, Montreal.	50
FAVINI, I.	University of Firenze.	2
FEAGANS, L.V.	Pennsylvania State Univ., University Park.	32, 3
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FELDMAN, J.F.	Albert Einstein College of Medicine.	1
FELDSTEIN, S.	University of Maryland Baltimore County.	23, 4
FENG, Q.	Umeå University	1
FENWICK, K.	University of Western Ontario	5
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FISH, M.	Marshall University School of Medicine.	16, 29, 3
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FREUDIGMAN, K.	University of Connecticut.	
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FRICKE, D.M.	NICHHD, Bethesda.	
FRIEL, J.	Memorial University, .	
FROSCH, C.A.	University of Illinois.	16, 2
FUESER, J.J.	University of Toronto.	

3) Responsiveness of central-american and euro-american mothers during play-interactions.
B. Leyendecker, C. Larson.
4) Microbehavioral analysis of mother-infant didactic interactions in two developmental niches.
C. Larson, M. Teresa Estrada.

POSTER SESSIONS

ROOM 7

- CI.1 MEMOY 11 a.m. - 1 p.m.
- CI.01 The Effect of Enhanced Attention on Infant Memory.
Scott A. Adler, Carolyn Rovee-Collier.
CI.02 Memory in 14-Month-Olds: Deferred Imitation Across Changes in Context and Object Size.
Sandra Barnat, Pam Klein.
CI.03 Infant Memory after a 3-Month Delay: Familiarity Versus Null Preferences.
Lorraine E. Bahrick.
CI.04 Delayed Object recognition in Infancy: Memory for Features Versus Feature Relations.
Ramesh S. Bhatt, Carolyn Rovee-Collier.
CI.05 Effects of Causal Structure and Necessary Order on Infants' Event Memory.
James Bodie, Cecilia Shore, Ling-Yi Zhou.
CI.06 The Effects of a Mild Stressor on 15-Month-Old Infants' Ability Remember Specific Aspects of an Event.
Louise A. Hertzsgard.
CI.07 The Effects of Cue and Context Change During Memory Reactivation in Infancy.
Daniel F.A. Hitchcock, Carolyn Rovee-Collier.
CI.08 Memory for Multi-Modal Lists in Newborns: Is it Modular?
Kelley L. Kaye.
CI.09 Developmental Changes in Retention During the First Year of Life.
Pamela J. Klein.
CI.10 Remembering and Mapping Relations in a Symbolic Task.
Donald P. Marzoff.
CI.11 Auditory Context Cues and Recognition Memory with Six-Month-Old Infants.
Lisa A. Pescara-Kovach, Robert A. Haaf.
CI.12 The Role of Auditory Context in Memory Retrieval in Early Infancy.
Joyce Prigot, Lane Ploil, Jeffrey W. Fagen, Adam Stein.
CI.13 Neurocognitive Correlates of Recognition Memory in Premature and Control Infants.
Maira LM Richards, Kathleen M. Thomas, Michael K. Georgieff.

ROOM 32

- CI.2 PARENTS-INFANTS SPEECH COMMUNICATION
- CI.14 How do New-Born Babies Go from Expression to Communication.
Janine Abecassis, Isabelle Buile.
CI.15 Developmental Changes in Preferences for Maternal Infant-Directed Speech.
J.L. Abraham, R. Panmeton-Cooper, L.A. Pikaiek.
CI.16 Maternal Beliefs About their Infants' Development and Subsequent Maternal Responsivity to Infant Communications.
Grace Borzillino.
CI.17 Parents' Multiple Labels in Speech to Infants and Toddlers.
Maureen Callanan, Mark Sabagah, Jacqueline Neilson.
CI.18 Parent-Child Talk About Emotion and Children's Early Understanding of Emotion Words.
Christi A. Cervantes, Maureen A. Callanan.
CI.19 Language Acquisition Style, Temperament, and Parent-Infant Interaction.
W.E. Dixon, C. Shore, J. Bodie, L.-Y. Zhou.
CI.20 The Relationship Between Play and Expressive Language in Low Birth Weight Toddlers.
Rebecca R. Fewell, Michelle P. Glick, Donna Spiker.

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DERBEVNSKY, J.
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EKLUND, K.
EMDE, R.N.
ENNOURI, K.
EPFS, S.
ESTRADA, M.T.
ETHERIDGE, W.A.

- C2.21. Eye Contact Modulates Infant Affect During Infant-Adult Interactions.
S.M.J. Hains, D.W. Muir, D. Franke.
- C2.22 Differential Effects of Infant-Directed Versus Adult-Directed Speech as Signals for Adult Female Faces.
Peter Kaplan, Paula Jung, Cynthia Jeffers.
- C2.23 Communicative Acts in Mother-Child, Father-Child Dyads at Two-Years.
Mila Kornhaber-Le Chanu, Haydée Marcos.
- C2.24 Prosodic Indicators of Mother's Affect in Early Mother-Child Communication.
Julia Mendonça, Marcel Trudel, Helga Feider.
- C2.25 Neonatal Right Head-Turns to the Maternal Voice.
Christine Moon, Dune Ives.
- C3. MOVEMENT - POSTURE - LOCOMOTION ROOM 33**
- C3.26 The Relation Between Walking and Changes in Play with Objects.
Ann Bigelow, Monica Watson.
- C3.27 Temporal Properties of the Visuo-Postural Coupling in Newborn.
Olivier Gapenne, François Jouen.
- C3.28 Neonatal Responses to the Modeling of Tongue Protrusion and Mouth Opening.
J. Ger, F. Bandman, D. Couturier-Fagan, A. Goldstein, I. Hayut, F. Shelber, G. Turkewitz, M. Anisfeld.
- C3.29 Visually-Guided Reaching and Waking Behavior in Early Infancy.
Debra A. Harkins.
- C3.30 Stepping Behavior in Preterm Infant During the First Year.
C.B. Heriza, R. Norris.
- C3.31 The Role of Motoric Factors in Success on a Two-Position Hiding Task.
R. Kermolan, Q. Dong.
- C3.32 From Walking Reflex to Independent Walking in Infant: Motor Effects of a Training.
S. Maciaszczyk-Jedeau.
- C3.33 Perception of Self-Produced Leg Movements by 3-5 Month-Old Infants in Conditions of Conflicting Visual-Proprioceptive Feedback.
Rachel Morgan, Philippe Rochat.
- C3.34 Motor Performance in Fullterm Infants Using a New Protocol for Structured Observation at the Age 0-6 Months.
Kristina Persson, Bo Strömberg.
- C3.35 Organization of Vestibular Evoked Moro Response During the First Five Days of Life.
Louise Rönnqvist.
- C3.36 Developmental Changes in the Visual Control of Posture from 5 to 9 Months of Age.
James L. Rose.
- C3.37 Three-Month-Old Infants Learn New Patterns of Interlimb Coordination.
Esther Thelen.
- C3.38 Interlimb Sensitivity to Perceptual-Motor Information.
B.D. Ulrich, D.A. Ulrich, R. Angulo-Kinzler.
- C3.39 Effect of Postural Experience on the Organization and Development of Motor Behavior in Infants.
Laurence Vaivre-Douret.
- C3.40 Postural Constraints at the Emergence of Jumping in Young Children.
Laurence Vaivre-Douret.
- C3.41 Treadmill Training: The Influence of Intrinsic Dynamics on Learning Effects.
Beatrix Vereijken.
- C4. ATTACHMENT ROOM 34**
- C4.42 Infant Interaction with Known and Unknown Adults: Sociability and Shyness.
Kerstin Andersson, Gunilla Bohlin, Berit Hagekull.
- C4.43 The Importance of Security of Attachment to the Father: Implications for Toddler Functioning.
Rebecca del Carmen, Frank Pedersen, Lynne Huffmann, Yvonne Bryan.
- C4.44 The Uniqueness of Mother Own-Infant Interactions.
Arthur I. Eidelman, Hila Zvi, Miko Levy, Marsha Kaitz.
- C4.45 The Stress-Attachment Link in a Quebec Sample of Infants: An Alternative Interpretation.
J. Gagnon, G.M. Tarabulsky, R. Tessier, C. Piché.

- COLEMAN, S. University of Kansas at Lawrence. 5
- COLES, C.D. Georgia State University at Atlanta 5
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University of Texas at Austin.
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Concordia University, Montreal.
University of Toledo.
Pitzer Coll. & Claremont Grad. School, Claremont

IV

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S19. CURRENT PERSPECTIVES ON INFANT SOCIAL COGNITION.

Convenor:

CARON, A.J.

Contributions:

1) Infant social perception revealed during adult-infant face-to-face interaction.

D. Muir, Y. Cao, B. D'Ekaumont.

2) Infant cognition of persons: When, what, how?

Albert J. Caron.

3) Development of perception of social affordances.

Arlene S. Walker-Andrews.

4) Infant's social conceptions: Persons or objects.

Michael Lewis.

S20. IMPACT OF MATERNAL POSTNATAL AFFECTIVE DISORDER ON THE

MOTHER-INFANT RELATIONSHIP AND ON INFANT DEVELOPMENT.

Convenor:

KUMAR, R.

Contributions:

1) Susceptibility of infants to maternal depression: Effect of timing and

different impact in males and females.

Deborah Sharp, Dale Hay, Susan Pawlby, Gesine Schmuckler, Helen

Allen, R. Kumar.

2) The infant's contribution to the mother-infant relationship in the context of

postnatal depression.

Lynne Murray.

2-4 p.m.

SYMPOSIUM

C4.46 Effects of Early Separations on Child Attachment.
B. Guerrieri Degl'Innocenti, P. Benvenuti, I. Favini, G. Marchetti, M.G.
Pappa, M.G. Pinl, A. Selvi, V. Valoriani, A. Pazzagli.
C4.47 Attachment from One to Three years: Continuities and Discontinuities.
Jean L. McHale, Cynthia A. Frosch, Cynthia Greene.
C4.48 Associations Between Parent-Reported Attachment Security and Observed Social
Behaviors.
Saul Rosenthal.
C4.49 Infants' Secure-Base Behaviors as Reported by Mothers Using the Q-Sort Procedure:
Reports from Two Studies.
Axel Schimmetich.
C4.50 Quantitative Approaches to the Description and Classification of Early Attachment.
R.F. Strayer, Manuela Verissimo, B.E. Vaughn.
C4.51 Using Mothers VS. Observers in AQS Assessments: Theoretical and Practical Issues.
Douglas M. Tetl, Sharon McGourty.
C4.52 The Formation of the Various Kinds of Adult-Child Interaction Under Abnormal
Mothering Conditions for 0 to 1 Year Old Babies.
Soloed Caroline Vitaljeva.
C4.53 Infant's Secure Base Behavior as Assessed by the Strange Situation and the Q-Sorts of
Mothers and Observers: Comparisons Within and Across Methods.
Kimberly A. White, Stanley Feldstein.
C4.54 Maternal Functional and Dysfunctional Capacities: Antecedents and Consequences.
Ulrike Zach, Susanne Volker.

ROOM 162

- 4) Maternal mental illness and severe disorders of mother-to infant attachment.**
R. Kumar.

ROOM 262

LYNCH, M.P.
LOCKE, J.L.

- 1) *Development of vocalizations in infancy.*
D. Kimbrough Oller, Rebecca E. Eilers.
- 2) *The origins of prespeech.*
Rachel E. Stark, Suneeti Nathani.
- 3) *From cooing to babbling to meaningful words: Vocal "milestones" in the context of mother-infant communication.*
Mechthild Papousek.
- 4) *The rhythmical organization of french babbling in hearing and deaf children.*
Gabrielle Konopczynski, Shirley Vinter.
- 5) *Phrasing in the absence of words or grammar: adults' perception of rhythmic organization in prelinguistic vocalizations.*
Michael P. Lynch.

ROOM 203

JOHNSON, S.P.

- 1) *The emergence of young infants' perception of object unity.*
Scott P. Johnson, Alan Slater, Richard N. Aslin.
- 2) *Infants' use of perceptual similarity when segregating partly occluded objects during the fourth month of life.*
Amy Needham.
- 3) *Infants' ability to integrate information over time: The perception of partly occluded objects.*
Gretchen A. Van de Walle.
- 4) *Infant's knowledge of support relations and the perception of partially occluded objects.*
Lincoln Craton.

ROOM 206

**St JAMES-ROBERTS, I.
WOLKE, D.**

- 1) *Baby face: Infant temperament and craniofacial variation.*
Doreen Arcus, Jerome Kagan.
- 2) *The effects of extreme crying on parental perceptions.*
C. Stifter, M. Bono.
- 3) *Excessive infant crying: A controlled study of mothers helping mothers.*
D. Wolke, P. Grav, R. Meyer.

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Rainbow Babies & Childrens Hospital, Cleveland
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University of Malaga.
University of Padova.
Emory University, Atlanta.
University of Washington.
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4) *Supplementary carrying versus responsive parenting as interventions to prevent persistent infant crying.*
Ian St James-Roberts, Jane Hurry, Ronald Barr.
S24. AROUSAL AND SELF-REGULATION IN PRE-TERM AND FULL-TERM INFANTS.
Contributors:
COLL, C.G.

1) *Self-regulation of attentional and somatic demands in preterm and full-term infants.*
Lyn LaGasse.
2) *Self-regulatory motor behaviors and cardiorespiratory response in full-term and preterm infants.*
Rosemarie Bigsby.
3) *Influence of social support on caregiver adaptation to fussy/difficultness in preterm and term infants.*
C.F. Zachariah Boukydis.
4) *The use of repeated NBAS exams to predict cognitive functioning of 4-year-old term and preterm children.*
M.M. McGrath, C.F. Zachariah Boukydis, M.C. Sullivan.

S25. THE SUCROSE EFFECT ON PAIN.
Contributors:
BARR, R.G. *ELCOTY ELDS*

1) *The sucrose effect on pain response in infancy and childhood.*
Ronald G. Barr, Simon N. Young, Anton R. Miller, K-L. Cassidy, Janice H. Wright, Lisa Hendricks.
2) *Sucrose as a calming agent in 2-4 week old human infants.*
Debra Zeltman, Sarah Delaney, Elliott M. Blass.
3) *A new look at some old mechanisms in human newborns: taste and tactile determinants of state, affect and action.*
Vivian Claramitaro.
4) *Taste optoids and calm: A psychological approach to the development of mother-infant relationships.*
Elliott M. Blass.

S26. DEVELOPMENTAL ISSUES IN INFANT BIMANUAL COORDINATION.
Contributors:
MICHEL, G.

1) *Bimanual coordination of reaching in 7- to 13-month-old infants.*
George F. Michel.
2) *Progress in infant manual skill development relates to changes in the spatio-temporal pattern of bimanual synergies.*
Jacqueline Fagard, Anna Pezé.
3) *The bimanual skill repertoire of 7- to 13-month-old infants.*
Marilise Kimmie.
4) *Developmental changes in the sequential organization of infant manual skill for the acquisition of objects.*
Kathleen Kotwica.

Discussant:

Michael Peters.

1.30-3.30 p.m.

POSTER SESSIONS

D1. TEMPORAL AND SPATIAL ANTICIPATION

ROOM 7

- D1.01 Spatial Cognition at 8 Months is Related to Sustained Attention and EEG Coherence.
Martha Ann Bell.
- D1.02 Infants' Goal-Directed Actions: The Competitive Relations Between Thinking and Reaching.
J. Paul Boudreau, Emily W. Bushnell.
- D1.03 Perceiving Causality or Spatiotemporal Continuity in 3-4-Month-Old Infants.
Stéphan Desrochers, Roger Lécuyer.
- D1.04 The relation Between Control of Attention During Examining and Successful Means-End Planning.
Mary Katherine Dimodugno.
- D1.05 The Evolution of Visual Perspective-Taking Abilities within Level 1.
Pascale C. Girouard, Marcelle Ricard, Thérèse Gouin Décarie.
- D1.06 Search for a Silent Object in the Dark.
Nathalie Goubet, Rachel K. Clifton.
- D1.07 Spatial Anticipation by 4- to 8-Month-Old.
Susan J. Hespos, Philippe Rochat.
- D1.08 Two-Year-Old's Understanding of Pretense Expressions of Independent Agency.
Robert D. Kavanaugh, Dara R. Eisenman, Paul L. Harris.
- D1.09 Young Infants' Performance of a Means-End Sequence.
Valerie Kolstad.
- D1.10 Young Infants' Sensitivity to Temporal Order.
Jennifer Merriman, Carolyn Rovee-Collier.
- D1.11 Babies' Construction of Object Weight Property and of the Effect Weight has on a Scale.
Gilberte Piéaut-Le Bonniec.
- D1.12 The effects of Pre-And Perinatal Stroke on Spatial Cognitive Development.
Catherine Stern, Joan Stiles.
- D1.13 Are Better Anticipation More Efficient Feature Detectors?
Catherine S. Tamis-LeMonda, Jana McClure, Wendy Armone, Lainie Hazan.
- D1.14 Relative Importance of Response Over Representational Information in 2-Year-Olds' Search Behaviour.
Philip David Zelazo, J. Josephine Fueser, Jennifer Saltzman, Margo Scharer, J. Steven Reznick.
- D1.15 Processing of a Sequential Visual Stimulus at 13, 22 & 31 Months.
Philip R. Zelazo, Michael Weiss, Caroline Reid.

D2. FETAL BEHAVIOR AND EXPERIENCE

ROOM 32

- D2.16 Epidural Anesthesia During Labor: Effects on Newborn Habituation and Novelty Preference.
Gail A. Brumitt.
- D2.17 Embryological Links Between Craniofacial and Brain Development.
Curtis K. Deutsch.
- D2.18 Fetal Responsiveness to Vibroacoustic Stimuli: Influence of Vibrator Characteristics.
I. Fearon, B.S. Kisilevsky.
- D2.19 Maternal Vasoactive Intestinal Peptide and the Regulation of Prenatal Growth and Development.
Joanna M. Hill, Susan K. McCune, Douglas E. Brenneman.
- D2.20 Maturation of Responses to Vibroacoustic Stimulation in the High-Risk Fetus.
B.S. Kisilevsky, S.M.J. Hains, J.A. Low.

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- 15.58 Cardiac Vagal Tone as a Risk Factor in High-Risk Preterm Infants.
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- 15.59 A Model of the Development of Sleeping and Waking in Preterm Infants.
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- 15.60 Premature Infant Responses To Noise Control by Earmuffs: Effects on Behavioral and Physiologic Measures.
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- 15.61 Psychosocial Environment and Development of Very Low Birthweight at Two Years.
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- 15.66 Prenatal Malnutrition in Apparently Healthy Infants: Effects from Birth to 12 Years of Age.
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- 15.67 Sensory Processing in Infants.
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- 15.68 Continuities in the Development of LBW Infants.
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- 15.69 Psychological Development in-Preterm Infants: Relationship to Biologic and Environmental Risk Factors.
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- 15.70 Mitigating the Prematurity Stereotype: Effects of an Information-Based Intervention.
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- 15.71 Extremely Low Birth Weight Infants < 901 G. Outcome and Impact on the Family 1 and 4 Years After Birth.
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- 15.72 Managing Premature Infant Stress in the NICU: Evaluation of a Training Model.
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- 15.73 Effects of Incubator Vibration on LBW Infants.
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- D2.21 Influence of Concurrent Sensory Stimulation on Early Perceptual Organization in Precocial Animal Infants.
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- D2.22 The effects of Maternal Speech on Fetal Behavior.
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- D2.23 Fetal Responses to Maternal Rocking and Tiling.
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- D2.24 The Pressures of Intrauterine Life.
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- D2.25 The Functionality of Nasal Chemoreception Tested in Utero in the Fetal Lamb.
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- D2.26 Development of the Catecholaminergic Neurons During the first Half of Gestation in Humans with Special Emphasis on the Innervation of the Cerebral Cortex.
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- D3. PEER INTERACTION
- D3.27 Stability of Social Acceptance in Different Contexts in Preschool Children.
E. Clucel, G. Tomada, R. Tassi.
- D3.28 Emerging Conversations Between Unfamiliar Toddler Peers.
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- D3.29 Ethnological Study of Social Dominance in Children two, three and four Years of Age: Cross-Sectional.
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- D3.30 Perceptive Salience of Peers and Toddler-Toddler Interactions.
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- D3.31 Topic Sharing Between Young Peers: A Micro-Genetic and Developmental Study.
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- D3.32 Norms and Traditions in Kindergarten Groups of two-three Year Olds.
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- D3.33 Styles of Social Adjustment with Unfamiliar Peers.
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- D3.34 Relation Between Stress and Coping Behaviour of Young Children Confronted with a Group of Unfamiliar Peers.
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- D3.35 Manifestations of Gender Identity at 24 Months of Age.
Gail Le Maner-Idrissi.
- D3.36 The Competitor Effect of an Adult Presence on Communication Between 21- and 32-Months Old.
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- D3.37 Neonatal Behavioral Patterns in Discordant Twin Pairs.
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- D3.38 Stylistic Variation in the Regulation of Social Spacing in Early Peer Groups.
Pierre Roques, Raymond Campan.
- D3.39 Improving Adaptation to Day-Care in Young Children by Caregiver Training.
Elena V. Solovjova.
- D3.40 Precursors of Social Relations in the Toddler Play Group.
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- D3.41 Conflict and Social Interaction within Same-Gender and Mixed-Gender Toddler Dyads.
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- D4. CULTURAL DIFFERENCES IN PARENTS-CHILDREN RELATIONS ROOM 34
- D4.42 Family Socioeconomic Status and Mother-Infant Relations: The United States and Argentina.
Marc H. Bornstein, O. Maurice Haynes, Joan T.D. Suwalsky, Celia Galperin.
- D4.43 Rituals in Family Life: A Comparison of Ritual Participation and Ritual Symbolism Between Families with Disabled and Families with Normally Developing Preschoolers.
Jayne Emily Bucy.

- D4.44 Maternal Sensitivity and Responsiveness During Feeding: An Examination of Two Diverse Subcultural Groups.
M. Teresa Estrada.
- D4.45 Mother-Infant Interaction During the First Year of Life in Two Culturally Diverse Groups Living in the U.S.
Maria P. Fracasso, Birgit Leyendecker, Lynn M. Shelley-Sireci.
- D4.46 A Microanalytic Analysis of Inuit Caregiver-Child Interaction.
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- D4.47 Korean and North American Parents' Goals and Fathers' Caretaking Involvement with their Infants.
Jeanne Karns, Insoon Kim.
- D4.48 A Descriptive Account of Contingencies of Reinforcement as Represented in Maternal Behavior in Three Cultures.
Patrice M. Miller, Amy L. Richman, Robert A. Le Vine.
- D4.49 Maternal Sensitivity in West Africa: Does Urbanization Change the Responsiveness of Dogon Mothers?
Lelia Pisani, Mary True, Fadimata W. Oumar.
- D4.50 Functional Analysis of the Contents of Maternal Speech to Infants in Two Different Cultural Contexts in Italy.
P. Venuti, M.H. Bornstein, G. Rossi.
- D4.51 Do Experts, Teachers, and Mothers Agree? -- A Study of Attachment Q-Set in China.
Fang Wu, Hong Zou.
- D4.52 Selected Antecedents of Attachment in a Mexican Origin Group Residing in the U.S.
Marlene Zepeda.

TWINS

- D4.53 Follow-Up Study of Mental and Physical Development in 34 Twin Pairs.
Britta Alin Akerman.
- D4.54 What Makes Mother-Infant Interaction Different with Twins?
D.A. Hay, T.R. Ben-Meir, J. Milgrom.
- D4.55 Attitudes and Child-Rearing Practices of Mothers of One-Year Old Twins: Twinning or Differentiation?
Monique Robin, Irène Casati, Denise Josse.

4-6 p.m.

SYMPOSIA

(Invited Symposium)

S27. CONTEMPORARY VIEWS ON INFANT FACE PERCEPTION: BRAIN-BEHAVIOR RELATIONS

Amphi J. Gérard

Convenor:

NELSON, C.A.

Contributions:

- 1) *The eye-direction detector (EDD): A case for evolutionary psychology.*
Simon Baron-Cohen.
- 2) *What do infants know about their mother's face?*
John Morton, Jon Bartrip.
- 3) *Six-month-old infants' electrophysiological responses to their mothers' faces.*
Michelle de Haan, Charles A. Nelson.
- 4) *How specialized are the systems that process faces in infancy?*
S. De Schonen, C. Deruelle, J. Mancini, O. Pascalis.

- J3.37 Labeling Effects of Premature Infant Health and Parent Social Status on Medical Students' Ratings of Behavior, Attractiveness, and Responsiveness to Developmental Supports.
Susan Epps.

- J3.38 Parents' Sense of Competence and Control Over the Health of their Infant with Bronchopulmonary Dysplasia or Respiratory Distress Syndrome.
Susan Epps.

- J3.39 Irish Mothers' Perceptions of Parenting a Handicapped Infant.

Catherine Donahue Finn.

- J3.40 Correlates of Stress in Parents of Infants Hospitalized in the Neonatal Intensive Care Unit.

Sandra Funk, Margaret S. Miles, Mary Ann Kasper.

- J3.41 Determinants of Parenting During Infancy: A Social-Cognitive Approach.

J. Ganiban, E. Newboldt.

- J3.42 "Prematurity Stereotype" in a Sample of Dutch Mothers.

J.D. Ingleby, M.J. Tanke.

- J3.43 Competing Needs: The Impact of Having a Chronically Ill Sibling Before Turning Two Years of Age.

Magdalena Janus.

J4. PARENTAL PERCEPTION OF RISK AND PARENTAL INTERACTION WITH AT RISK INFANTS

ROOM 3

- J4.44 Prematurely Born Children At 3 Year: Developmental Status and Interactions with Mothers.

Diane Holditch-Davis, Micheal Belyea.

- J4.45 The Relationship Between Maternal Characteristics and Perception of Infant Temperament and Development in Two Vulnerable Populations.

Ginette Lamarre, Andrée Pomerleau, Gérard Malcuit, Renée Séguin, Jacques Moreau.

- J4.46 Infant Intervention Programs: Who is Dropping Out?

Anne McDonald Culp, Laura Hubbs-Tait, Rex E. Culp, Maureen Blankemeyer, Cathie Briscoe.

- J4.47 Relationships at Risk? Teens Parenting Toddlers.

Susan C. McDonough.

- J4.48 Chaotic Homes and Infant Developmental Lag.

Adam P. Matheny, D. Kay Phillips.

- J4.49 Interactions of Mothers and 12-Month-Old Deaf Infants With and Without Additional Handicaps.

Kathryn P. Meadow-Orlans, Sybil Smith-Gray, Birgit Dyssegaard.

- J4.50 Mothers' and Fathers' Prebirth Beliefs and Postpartum Depression.

Wendy E. Phillips, Lauren B. Adamson.

INFANT MORTALITY

ROOM 3

- J4.51 A Method for Identifying Newborns who are at Risk for Infant Mortality.

Chet Johnson, Lois Morgan, Cris M. Britton.

- J4.52 Mortality Trends Among At-Risk Newborns in the Presence/Absence of Intervention.

Chet Johnson, Lois Morgan, Cris M. Britton.

- J4.53 The Relationship Between Stress and Respiratory Illness in Young Infants.

M.D. Klinnert, D.A. Mrazek, P.J. Mrazek, D.A. Walker.

- J4.54 Abnormal Breathing Reduction in Preterm Infants During Skin-To-Skin Contact.

Susan Ludington-Hoe, Joan Swinth.

- J4.55 High Risk Factors in Infant Survival 1860-1930: Evidence from Material Culture and Related Documentation.

Eva Nwokah, Richard Stringfellow, Scheila Sellin.

J5. LOW WEIGHT-HIGH RISK

GALERII

- J5.56 Nursery Assignment, Based on Weight or Gestation, Varies for Healthy Just-Delivered Preterm Infants.

Gene Cranston Anderson, Shyang-Yun Pamela Shiao, Kristen Smith-Sullivan,

- 11.13 Distinctive Features and the Defining of Perceptual Space in Newborns.
 Kelley L. Kaye.
- 11.14 Brain Event-Related Potentials as Measures of Basic Auditory Cognition in Newborns.
 P. Leppänen, K. Laukkonen, K. Eklund, H. Lyytinen.
- 11.15 Intrasubject Variability of the Newborn Auditory Brainstem Response.
 Angela C. Shoup-Peck.
- 11.16 Cues Conveyed by Fundamental Frequency, but not Formant Frequencies, are Sufficient for Newborns' Maternal Voice Recognition.
 Melanie J. Spence, Mark S. Freeman.

- 12.17 Four-Month-Olds' Recognition of Forms Connotted by Complementary Contour.
 John Colombo, Janet E. Frick, Jennifer S. Ryther, Jennifer J. Gifford, Shelia A. Gorman.
- 12.18 Global and Local Pattern Processing in Infancy: An ERP Study.
 C. Denuelle, H.J. Neville.
- 12.19 Infants' Perception of Object Unity of Partly Occluded Rotating Objects.
 Dara R. Eizenman.
- 12.20 Visual Compound Processing by Newborn Infants.
 D.P. Laplanche, R.R. Orr.
- 12.21 Discrimination of Stimulus Rotation by Newborn Infants: Methodological Considerations.
 D.P. Laplanche, L. Vorkapich, K.E. Neville, D. Sasso.
- 12.22 4-Month-Olds Form Perceptual Number Categories.
 David S. Moore, Michael J. Salomon Weiss, Heather Coleman.
- 12.23 Infants' Sensitivity to Dynamic Symmetry in Point-Light Displays of Biomechanical Motions.
 Amy E. Parellus.

- 12.24 The effects of Visual Blur on Infant Discrimination of Angular Relationships.
 M. Pagano, P. Riddell, L. Haimline.
- 12.25 Human Infants' Sensitivity to Biological Motions in Point-Light Cuts.
 Jeannine Pinto.
- 12.26 Shape Structure and Change Detection in 4-Month-Old Infants.
 Katia Kovira, Roger Lecuyer.
- 12.27 Minding Your O's and Q's: Visual Pop-Out and Fixation Duration in Three-Month-Olds.
 Jennifer S. Ryther, John Colombo, Janet E. Frick, Sara Coleman.

13. PARENTAL PERCEPTION OF RISK AND PARENTAL INTERACTION
 ROOM 33
- 13.28 Relationship Between Postpartum Stress and Nonintentional Injuries in Preschoolers.
 Kristi Alexander.
- 13.29 External Validity Involving Medical Complications in a High-Risk Sample.
 Joan E. Beard, Irving J. Goodman.
- 13.30 Consolidation of Skills Over Age and the Impact of Early Risk Factors.
 Margaret Bendersky.
- 13.31 Predictors of Social Functioning: A Longitudinal Study of Medically Fragile Infants.
 Gienna C. Boyce.
- 13.32 Maternal Attachment Representations and Infant Brain Damage as Predictors of Attachment in Preterm Infants.
 Suzanne M. Cox, Joyce Hopkins, Sydney L. Hans.
- 13.33 Neonatal Neurobehavioral Differences According to Trimester of Gestation at Exposure to Maternal Stress During Paternal War-time.
 P.F. Chappell.

- 13.34 The Impact of Risk and Intervention Participation on Birth Outcomes.
 Deborah Coates, Larry Muenz, Barbara Kinney.
- 13.35 The Effects of Program Assistance on Young Teen-Age Mothers and their Babies.
 Kristin L. Drege, Carolee Howes.
- 13.36 Mother-Infant Interaction: Effects of Infants' Immaturity and Medical Status at Birth.
 Lygia S. Eizirik, Cunilla Bohlin, Berit Hagekull.

(Invited Symposium)
 S28. MATERNAL DEPRESSION EFFECTS ON INFANT BEHAVIOR AND PHYSIOLOGY.
 ROOM 162

Convenor:
 FIELD, T.

- Contributions:
- 1) Maternal depression affects newborn behavior and biochemistry.
 Tiffany Field, Sonya Abrams.

- 2) Relative right frontal EEG activation in 3- to 6-month-old infants of depressed mothers.
 Nathan Fox, Tom Nawrocki.
- 3) Lower vagal tone in infants of depressed mothers.
 Jeffrey Pickens, Ian Ralsbeck.
- 4) Perceived "vulnerability" by depressed mothers is related to later infant development delays.
 Debra Bendell, Kaiser-Permanente, Regina Yando, Julie Malphurs.

S29. HLM: AN ALTERNATIVE METHODOLOGY FOR THE MEASUREMENT OF CHANGE, CONCEPTUAL AND EMPIRICAL ISSUES FOR PEDIATRIC POPULATIONS OF HIGH RISK INFANTS AND CHILDREN.
 ROOM 203

Convenor:
 MCKEEVER, N.

- Contributions:
- 1) HLM: Conceptual and mathematical foundations.
 S. Raubenbush.

- 2) HLM: Assessment of preterm development.
 P.R. Swank, S.H. Landry, J.A. Moore, M.V. Hammond.
- 3) HLM: Patterns of sensorimotor development among children having different disabilities.
 C.J. Dunst.

- 4) HLM: Modeling individual growth and change in sensorimotor development in a Pediatric population with human immunodeficiency virus.
 N. McKeever, J. Mitchell, P.M. Vietze.
- 5) Comparative analysis of repeated data on Bayley's scales by HLM and generalized estimating equations (GEE): Neurodevelopment in HIV-infected infants, seroconverters and uninfected controls from birth to 24 months.
 L.R. Muenz.

S30 NOW YOU SEE IT? NOW YOU DON'T -- FACTORS AFFECTING STABILITY ESTIMATES OF INFANT TEMPERAMENT.
 ROOM 206

Convenor:
 WOROBAY, J.

Contributions:

- 1) Continuity and change in infant temperament: A developmental/behavioral genetic analysis of the IBR.
 Kimberly J. Saudino.
- 2) Stability and change in infant temperament as a function of mother and infant characteristics.
 Margaret Fish.

- 3) *Stability of temperament during infancy: Nature, nurture, or nutriture?*
John Worobey.
- 4) *Longitudinal stability in infant temperament: Oxymoron or fugitive?*
Warren O. Eaton.

Discussant:

Marilyn L. Riese.

S31. INFANTS' PROCESSING OF MOTION INFORMATION.

ROOM 212

Convenor:

BRADDICK, O.

Contributions:

- 1) *Developmental differences in the detection of absolute and relative motions.*
Bennett I. Bertenthal, Tom Banton.
- 2) *Infants habituate to motion-based segmentation but not to direction of motion.*
Olivier Braddick, Janette Atkinson, John Wattam-Bell.
- 3) *Thresholds for low temporal frequency standing -and travelling- wave motion in 14- week-olds.*
James L. Dannemiller.
- 4) *Motion coherence thresholds in infants.*
John Wattam-Bell.
- 5) *The development of sensitivity to motion parallax in infants.*
Kirsten Condry, Albert Yonas.

S32. RECENT PROGRESS IN THE STUDY OF POINTING.

ROOM 241

Convenor:

BUTTERWORTH, G.

Contributions:

- 1) *Pointing and event perception in babies.*
George Butterworth.
- 2) *Comprehension and production of pointing in infancy.*
Paul Morissette.
- 3) *The emergence of referential understanding: Pointing and the comprehension of object names.*
M. Harris.

4-6 p.m.

POSTER SESSIONS

E1. LEXICAL, SYNTACTIC AND SEMANTIC DEVELOPMENT

ROOM 7

- E1.01 An Ecological Approach to Language Development: Specificity of Reference and Lexical Growth.
Patricia Zukow-Goldring.
- E1.02 Language and Cognition in Late Talking Toddlers.
Donna Thal, Beth Stare, Judy Weir.
- E1.03 A Longitudinal Study of Joint Attention.
Bénédicte Rousseau, Catherine Tourrette.
- E1.04 Two-Year-Olds' Ability to Make Informative Requests.
Daniela K. O'Neill.
- E1.05 Development of Preverbal and Verbal Reference.
Paul Morissette, Marcelle Ricard, Thérèse Gouin Décarie.
- E1.06 Gender and Motion: Important Factors in Infants' Ability to Learn Word-Object Associations.
V.L. Lloyd, L.B. Cohen, J.F. Werker, R. Foster, C.S. Swanson.

- 3) *Early tactile stimulation and later development.*
Aine de Roiste, Ian Bushnell.
- 4) *Very early tactile stimulation and later cognitive development.*
Elvidina Nabuco Adamson-Macedo, Jairon Werner.

9-11 a.m.

ROUND TABLE

VARIABLES ASSOCIATED WITH THE DEVELOPMENT OF TWINS AND HIGHER MULTIPLE BIRTH INFANTS

ROOM 26

Convenors:

Monique Robin and Marilyn Riese.

Contributions:

- 1) *Impact of biological and perinatal environmental factors.*
M. Riese, B.A. Akerman.
- 2) *Impact of the family context.*
M. Robin, M. Garel.

Discussants:

B. Ginsburg, M. Kalmar.

8.30-10.30 a.m.

POSTER SESSIONS

J1. CROSS-MODAL PERCEPTION

ROOM

- J1.01 Infant's Detection of Synchrony Between a Sound and a Pause in Continuous Motion
Linda Alberg.
- J1.02 5-Month-Olds' Perception of Asynchrony Between Face and Voice During Social Interaction.
Yan Cao.
- J1.03 Intermodal Perception of Rate and Synchrony in Four-Month Olds: Naturalistic Versus Computer-Generated Displays.
Linnea R. Dickson.
- J1.04 The Role of Spatial Co-Location in Auditory-Visual Learning in Infants.
Kimberley Fenwick, Barbara A. Morrongiello.
- J1.05 Infants' Matching of Adult and Child Faces and Voices.
Maria Hernandez-Reif, Dianelys Soutullo, Lorraine E. Bahrick, Ivonne Fernandez.
- J1.06 Asymmetrical Intermodal Transfer: Myth or Reality?
Michèle Molina.
- J1.07 The Role of Co-Location and Temporal Synchrony in Auditory-Visual Learning in Infants.
Barbara Morrongiello.
- J1.08 Infant's Visual-Proprioceptive Intermodal Perception.
Mark A. Schmuckler.
- J1.09 Seven-Month-Old Infants' Haptic Perception of Visible and Nonvisible Textures.
Mary Tsonis, Dale M. Stack.

NEONATE REACTIVITY

ROOM

- J1.10 The Orienting Response and Attention in the Newborn Infant.
Paul Craddock, Claire Lambert-Leconte, Denis Querleu.
- J1.11 Newborn's Reactivity to Different Acoustic Elements of Maternal-Non Maternal Heart Rate.
G. Giovanelli, I. Callegati, A. Farneti, A. Sansavini, G. Tuozi.
- J1.12 Phonetic Normalization Across Voice Change in Newborns.
Caroline Floccia.

S59. ORIGINS OF THE MENTAL REPRESENTATION DURING THE PROCESS FROM TRIADIFICATION TO INTERNALIZATION (TRIANGULATION).

ROOM 206

Convenor:

LEBOVICI, S.

Contributions:

- 1) *Triadic interaction as anchors for the conceptualization of interactive representations.*
Elisabeth Rivaz-Depueursinge.
- 2) *How the infant might represent triadic interactions.*
D.N. Stern.
- 3) *Origins of the mental representations during the process from triadification to internalization (triangulation)*
Joy D. Osofsky.

Discussant:

Monique Pinol-Doutez.

S60. THE CONTINUUM OF PRENATAL AND POSTNATAL BEHAVIOR.

ROOM 208

Convenor:

CHAMBERLAIN, D.B.

Contributions:

- 1) *Prenatal and postnatal body language.*
David B. Chamberlain.
- 2) *Results of prenatal, neonatal, and early childhood stimulation program with 600 families in Venezuela.*
Beatriz Manrique.
- 3) *Auditory Learning in the human fetus.*
Peter G. Hepper.

Discussant:

G. Butterworth.

S61. EARLY SENSORIAL EXPERIENCES, INTELLIGENCE AND ACHIEVEMENT OF CHILDREN BORN PRETERM.

ROOM 241

Convenors:

ADAMSON-MACEDO, E.N.

WERNER, J.

DE CARVALHO, F.A.

Contributions:

- 1) *Distressed infants: Early responses to systematic gentle touching therapy.*
Elyvidna Nabuco Adamson-Macedo, Julie R.G.N. Hayes, Jonathan Sincok.
- 2) *Distressed ventilated preterms: Touching or not touching ?*
Aime de Roiste, Ann Wilson, F.A. De Carvalho.

- E1.07 The Use of Lexical Principles to Learn New Nouns During the Naming Explosion.
Susan A. Graham, Diane Poulin-Dubois, Joanne Tilden, Ilana Frank.
- E1.08 The Acquisition of Personal Pronouns by Bilingual Children.
Naomi S. Goodz.
- E1.09 Perceptual and Conceptual Boot-Strapping in Early Word Meanings.
Dedre Gentner, Sandra Waxman.
- E1.10 The Development of Sensitivity to Syntactic Cues in Identifying Word Meaning.
Rose M. Chmaderilla.
- E1.11 Beyond First Hypotheses: An Exploration Into Transitive Sentence Comprehension.
Jane B. Childers.
- E1.12 Babbiling Repertoire and First Words: Analysis of Infant Variability.
Laura Bosch.
- E1.13 Early Lexical Development in Relation to Syntactic Development.
Moshe Anisfeld, Mara Hoberman, Erica Rosenberg.
- E1.14 Acquisition of Transitivity in Inuktitut.
Shanley E.M. Allen, Martha B. Crago.

E2. INTERPERSONAL COMMUNICATION

ROOM 32

- E2.15 Social Classes and Mother-Child-Doctor Interaction in a Pediatric Consulting-Room.
M.L. De La Morena, C. Barajas.
- E2.16 A Model of Triadic Interactions in the Lausanne Triadic Play.
E. Rivaz-Depueursinge, A. Corboz-Warnery, G. Gertsch Bettens, B. E. Rivaz-Depueursinge, M. Sacco, Y. de Koten.
- E2.17 From Infancy to Adolescence in the Family: Continuity of Communication Patterns Across 14 Years. Videofilm.
Kurt Kreppner.
- E2.18 Triadic Interactions and Father's Representations.
M. Lamour, J. Rosenfeld, M. Sacco, S. Lebovici.
- E2.19 Sequential Analysis of the Non Verbal Engagement in Parent-Infant Interactions.
Y. de Koten, C. Gertsch Bettens, E. Rivaz-Depueursinge, A. Corboz-Warnery.
- E2.20 Maternal and Paternal Sensitivity on Infant Parental Preference.
Rachel M. Strauss, Sherri Addis-Palmer, Lisa J. Bridges.
- E2.21 How and When Does the Representation of Temporal Order Develop in Social Interactions?
H. Tremblay-Leveau, A. Marks, V. Pouthas.
- E2.22 Family Behaviors: Toddlers and Parents Acting in Kind.
Sharon Woodworth, Jay Belsky.

GENDER IDENTITY

- E2.23 Genital Cues and the Development of Gender Constancy.
Judit Gervai.
- E2.24 Sex-Role Identification in Toddlers: Imitation of Same-Sex Versus Opposite-Sex Peers.
Elizabeth Hanna, Sandra Barnat.
- E2.25 Learning Gender Labels.
Kleanor W. Herzog.
- E2.26 Mother-Child Communication During Play with Sex-Typed Toys.
Campbell Leaper.
- E2.27 Infants' Knowledge of Sex-Typed Toys at 18 and 24 Months of Age.
L.A. Serbin, K.A. Colburne.

E3. NURSING, INTERVENTION & DAYCARE

ROOM 33

- E3.28 Influence of Mode of Day Care Among the Preschool Children's Socialisation.
Monique Altes-Jardel, Patricia Merleau.
- E3.29 Symbolic Play in Two High-Risk Samples: Effects of an Intervention.
Elizabeth Anisfeld, Diane DeNise-Anunziata, Terese Aquino, Cristelle Contreras, Irena Milentijevic.
- E3.30 Comparison of 2-3 Year-Old Children Using Different Day Care Settings.
Genevieve Baileygulier, Madeleine Meudec.
- E3.31 Prevalence of Long-Term Hospitalized Infants in Neonatal Intensive Care Units (NICU'S) in the United States.
J. Browne.

- E3.32 Assessment of a Medical Care Strategy in a Maternity Hospital. Preliminary Data.
D. Candilis-Hulsman, M. Hubin-Gayte, M. Bydlowski.
- E3.33 The Effect of Otitis Media and Quality of Daycare on Children's Language Development.
Lynne V. Feagans, Diana Wright, Ingrid Blood.
- E3.34 Where do they Go from Here ? 6 Month Follow-Up of NICU Discharges from an Urban Hospital.
Michele Haney, Valentina Knox.
- E3.35 Parent-Professional Relationships: Finding an Optimal distance.
Jane D. Hochman, Gilbert M. Foley, Margaret Sampson.
- E3.36 Long Term Effects of Contrasting Forms on Early Childcare.
M.E. Lamb, H. Wessels, C.P. Hwang, A.G. Broberg.
- E3.37 The Mother-Baby Unit at Tallinn Children's Hospital in Estonia: An Example of Humanistic Neonatal Care.
Adik Levin.
- E3.38 Linear and Non-Linear Effects of Child Care and Family Influences on Social Relationships.
Kathleen McCartney, Anne Rocheleau, Saul Rosenthal, Nancy Keefe.
- E3.39 Articulating Research Knowledge on Infancy Into Practice.
Helen May, Margaret Carr.
- E3.40 Distressed Infants: The Impact of Systematic and Random Touching.
Elvidina Nabuco Adamson-Macedo, Aine de Roiste, Julie Hayes, Jonathan Simcock
- E3.41 Caregivers' Beliefs About Infants and Educational Patterns in Day-Care Services.
B. Ongari, P. Molina, H.M.A. Schadee.
- E3.42 Socio-Emotional Continuity Through the Preschool Years as Related to the Experience of Non Parental Care.
B. Pierrehumbert, K. Milhaud.
- E3.43 The Relationship of Child Care Centre Quality and Infant Socioemotional Behaviour.
A.B. Smith, V.E. Ford, P.M. Hubbard, White.
- E4. NUTRITION, TASTE AND OLFACTORY SENSITIVITIES ROOM 34**
- E4.44 Characteristics of Newborns Transitioning from Gavage to Oral Feedings.
Jean E. Ashland, M. Jeanne Wilcox.
- E4.45 Influence of the Breast or Bottle Feeding on Mother-Child Interaction in the First Six Months of Life.
Kathryn E. Barnard, Georgina Sumner, Mary Hammond.
- E4.46 Infant Nutrition and the Early Development of Visual Acuity.
Mary Courage, James Friel, Wayne Andrews, Ursula McCloy, Russell Adams.
- E4.47 Non-Organic Failure to Thrive Infants and their Mothers in Korea.
Keun Lee.
- E4.48 Interactions Between Mothers and Infants Showing Food Refusal.
Lene Lindberg, Gunilla Bohlin, Berit Hagekull.
- E4.49 Neonatal Responsiveness to Odors Extracted from the Prenatal Environment.
L. Marlier, B. Schaal, R. Soussignan.
- E4.50 Nutritive Sucking and Behavioral State in Full Term Newborn Infants.
Barbara Medoff-Cooper, Terese Verklan.
- E4.51 The Human Infants' Responses to Flavored Milk.
Julie A. Mennella, Gary K. Beauchamp.
- E4.52 Breastfed Infants: Predictors of Maternal Lactation.
Peggy L. Parks, Sharon Piper.
- E4.53 Short-Term Flavor Preference Induced by Dietary Flavors Transferred into Mother's Milk.
B. Schaal, P. Orgeur, R.H. Porter.
- E4.54 Characteristics of Newborn Infant Responsiveness to Maternal Odors.
Regina M. Sullivan, Donald A. Wilson, Paul L. Toubas.
- E4.55 Maturation of the Startle Reflex in the Breast-Fed Infants of Mothers with Mental Illness.
Keiko Yoshida, Michael Craggs, Channi Kumar, Brian Smith.

- 14.59 Assessment of Parent and Child Joint Planning Strategies for Negotiating Separations During the Strange Situation at 24 and 58 Months.
D. Barbara Sutton.

SPECIAL EVENT

I.S.I.S. General Assembly

4-6 p.m.

Amphi J. Gérard

- 13.37 Precursors of Social Relations in the Toddler Play Group.
R.F. Strayer, M.E. Chabod, M. Trudel.
13.38 Mothers' Perceptions and Feelings about their Infant's Cry Relate to Home Environment and Developmental Outcome.
Tomio Watanabe, Barry L. Lester, C.F. Zachariah Boukydis.

ROOM 33

- 13.39 From Signal to Social Interaction.
W.L. Donovan, L.A. Leavitt.
13.40 The Determinants of Daily Hassles: Parent Personality, Marital Relationship, and Child Temperament.
M.E. Egula.
13.41 Relations Between Stressors and Parent-Child Interactions in Families with a 24-Month-Old.
Patricia Jarvis, Gary Creasey, Susan Phelps, Jill Cockrel.

- 13.42 Transition to Parenthood in Women with a High-Risk Pregnancy: Maternal Stress and Coping, Mother-Infant Interactions, and Infant Development.
Rachel Levy-Shiff.
13.43 The Grandmother Effect: Maternal Self Efficacy and Social Support.
Margaret Johnson Solomon.
13.44 Maternal and Paternal Interaction with their 6-Month Old.
Diane E. Wille.

- 13.45 Maternal Employment Effects on Preterm Infants at 18 Months.
JoAnne M. Youngblut, Carol J. Loveland-Cherry, Mary Horan.
14.46 Correlates of Toddler and Mother Physiological Stress Reactivity in the Strange Situation.
K.A. Buss, M.B. Nachimas, L. Brodersen.

- 14.47 Reactions to Mother-Infant Separation: A Comparison of Twins and Singletons.
Irene Casati, Monique Robin, Blaise Pierrehumbert.
14.48 Stress and Coping in Infancy while Entering a Daycare Center.
R. Freytag, L. Ahnert, E. Küchler.
14.49 The Relationship Between Infant Behavioral Difficulties and Parenting Stress.
Leslie F. Halpern, Sara Matlis.

- 14.50 Infant Coping with Mildly Stressful Laboratory Events.
Katherine Hildebrandt Karraker, Christine Nelson Ross, Melinda Mahler.
14.51 Infant Response to Stress.
K. Kawakami.
14.52 Cortisol and Behavioral Responses to Stress in Newborn Infants.
Kiyobumi Kawakami, Takumi Yanahara, Yukiko Shimizu, Kiyoko Takai-Kawakami.

- 14.53 Cortisol Reactivity, Daycare Adjustment, and Temperament as Predictors of Social Behavior in Young Children in Daycare.
Elizabeth Kipp Campbell.
14.54 Emotional Responses to Fear vs. Anger-Eliciting Situations in Chinese, Japanese, and American 11-Month-Olds.
Harriet Oster, Meng Zhao-Lan, Tatsuo Ujlie, Joseph Campos, Linda Carras, Rosemary Campos, Alyson Neugebauer, Terry Diamonduros.

- 14.55 Cardiac Vagal Tone as a Neonatal Stress/Pain Index.
F.L. Porter, C.M. Wolf, D. Sprague, J.P. Miller.
14.56 Expression of Negative Emotions in Response to a Contingency Violation in Early Infancy.
Joyce Prigot, John Mohtai, Donna Carbonaro, Frank Bassani.

- 14.57 Stability of Individual Differences in Infant Adrenocortical and Behavioral Stress Reactivity.
Douglas S. Ramsay.
14.58 Infants Born to Adolescents: Biological and Behavioral Antecedents and Consequences.
C. Stifter, L. Susman.

Saturday, June 4

9-11 a.m.

SYMPOSIA

(Invited Symposium)

S33. MECHANICAL AND INTENTIONAL CAUSALITY.

ROOM 262

Convenor:

LECUYER, R.

Contributions:

- 1) *Causal and non-causal relations between collision events and their detection by 3-month-old infants.*
Roger Lécuyer, Anouk Bourcier.
- 2) *How infants perceive the causality of physical events.*
Leslie B. Cohen.
- 3) *Infants' reasoning about human action.*
Amanda L. Woodward.
- 4) *Infant's conception of people and objects: The case of causality.*
Maria Legerstee.
- 5) *Understanding causality and the beginning of a theory of mind in infancy.*
Stephan Desrochers.

S34. CO-FACTORS IMPACTING DEVELOPMENTAL OUTCOME IN DRUG EXPOSED INFANTS.

ROOM 162

Convenor:

SANDERS-PHILLIPS, K.

Contributions:

- 1) *The impact of birthweight on sucking characteristics in cocaine exposed infants.*
Kathy Sanders-Phillips.
- 2) *Developmental outcome and correlates of prenatal cocaine exposure in very low birthweight (VLBW) infants.*
L. Singer, T. Yamashita, J. Baley, B. Kliegman.
- 3) *Maternal psychopathology affects interaction of substance-abusing mothers with their infants.*
Leila Beckwith, Judy Howard.
- 4) *The NICHD maternal lifestyles study: Studying co-factors influencing developmental outcome in drug exposed infants.*
Barry Lester.

Discussant:

TRONICK, Ed.

S35. SPOKEN AND SIGN LANGUAGE PRODUCTION: THE TRANSITION INTO A PHONOLOGICAL SYSTEM.

ROOM 203

Convenor:

MacNEILAGE, P.

11.14 Cardiac and Behavioral Reactivity to an Auditory Stimulus in Cocaine-Exposed Neonates.

P. Suess, J. DiPietro, D. Newlin.

11.15 Role Reversal and Intrusive Caregiving Among Drug-Addicted Mothers and their Infants.

Krista Swanson.

11.16 Pygmalion in the Cradle: Observer Bias Against Cocaine-Exposed Infants.

N.S. Woods, F.D. Eyler, M. Conlon, K. Wobie, M. Behnke, C. Anderson, L. Maag.

12. VISION & VISUAL ACUITY

ROOM 3

12.17 Coupling and Uncoupling in Eye-Head Relations in Neonate's and Young Infants' Visual Pursuit.

Isabelle Carchon.

12.18 Six Month-Old Performance on Versions of the Oculomotor Delayed Response Task.

Rick Gilmore, Mark Johnson.

12.19 Ocular Vergence in Young Infants.

Louise Hainline, Patricia Riddell.

12.20 VEP Responses to Receptor-Isolating Stimuli in the First and Second Months.

K. Knoblauch, M. Bieber, J.S. Werner.

12.21 Visual Scanning During Information-Processing in Infancy.

Sharon J. Krinsky-McHale.

12.22 On the Structure of Visual Field in Infancy.

A. Mitkin.

12.23 Detection of a 45 Degree Change in Spatial Orientation by Newborns.

R.R. Orr, K. Neville, L. Vorkapich, D. Sasso.

12.24 Evolution of a Test of Stereopsis for Infants and Preschoolers.

Eileen Schanel-Klitsch, Elise B. Ciner, Chaya Herzberg.

12.25 Temporo-Nasal Asymmetry for Inhibition of Return in Newborns.

Francesca Simion, Eloisa Valenza, Carlo Umiltà, Beatrice Dalla Barba.

12.26 How Do Infants Perceive Subjective Contours?

Ruxandra Sireteanu, Christiane Rieth.

VISION IMPAIRMENTS

12.27 Visual Acuity in Infants with Perinatal Complications.

Russell J. Adams, Mary L. Courage, Mhaire E. Byars, Edna M. McKim.

12.28 Examination of Visual Attention in Preterm Infants with Intraventricular Hemorrhage.

B.J. Casey, Velma Dobson, Mark S. Scher, Mark H. Johnson.

12.29 Optimal Screening Strategy for Retinopathy of Prematurity.

B.P. Cats, N. Schalij-Delfos, B.L.M. Zijlmans, K.E.W.P. Tan.

12.30 Developmental Shifts in Visual Attention: Effects of Arousal and Brain Injury.

Judith M. Gardner, Bernard Z. Karmel.

13. SPECIAL INFANT CHARACTERISTICS AS A DETERMINANT OF PARENT-INFANT INTERACTION

ROOM 3

13.31 Outcome Differences for Digitally Altered Infant Cries when Assessed by Single or Multiple Rating Scales.

Jerry W. Cleland.

13.32 The Relation of Maternal Style and the Language Development of Children with Down Syndrome.

Sharon Harris.

13.33 Parent-Infant Interaction and Infant Temperament in the First Year.

L. Colette Jones, Judith A. Heermann.

13.34 Maternal Interaction with Developmentally Delayed Infants.

Jeanne Karns, Penni Romero.

13.35 Social Toy Play: Temperament and Parenting Stress in Relation to Visual Attention.

Lori A. Roggman, Andrea D. Hart, Sondra T. Moe.

13.36 Toddler Play: Relationships with Hearing Status, Language, and Mother-Child Interaction.

Patricia Elizabeth Spencer, Kathryn P. Meadow-Orlans.

S58. "SLEEP BABY SLEEP": WHAT HAS PARENTAL BEHAVIOR TEMPERAMENT OR NEUROLOGIC MATURITY GOT TO DO WITH IT ?

Convenors:

WOLKE, D.
SALZARULO, P.

Contributors:

- 1) Sleeping problems in preterm and fullterm infants: A longitudinal, epidemiological study of more than 5000 children.
R. Meyer, D. Wolke, B. Ohrt, K. Riegel.
- 2) The effects of treating sleep problems in toddlers on their daytime behavior.
K. Minde, A. Faucon.
- 3) From prenatal to postnatal maternal representation of infant sleep.
M. Toselli, P. Farnell, P. Salzarulo.
- 4) The regulation of sleep and infant temperament: A longitudinal study.
A. Scher, E. Thresh.

4-6 p.m.

POSTER SESSIONS

- 11.01 Emotional Expressivity in Cocaine-Exposed Infants.
Margaret Bendersky.
- 11.02 Neonatal Outcome in Infants Exposed to Cocaine: Are Preterms. More Severely Affected than Fullterms ?
Josephine V. Brown, Roger Bakeman, Claire D. Coles, Alice Deml, William R. Sexson.
- 11.03 Behavior and Cognitive Characteristics of Prenatally Drug-Exposed Children.
Senobia Crawford.
- 11.04 Development and Validation of a Measure of Role Reversal.
Andrea Davis, Farida Anwar.
- 11.05 Birth Outcome from a Longitudinal Study of Prenatally Matched Cocaine-Using and Non-Using Women.
Fonda Davis Eyster, Marylou Behnke, Michael Conlon, Nanci Stewart Woods, Kathleen Woble.
- 11.06 A Transactional Approach to the Study of Infants Born to Women who Use Cocaine.
Dena Holkosh, Holly Wald, Jan Pringle, Joanne Switala.
- 11.07 Elevated Poststress Cortisol in Infants Exposed Prenatally to Alcohol.
Sandra W. Jacobson, Joan T. Bihun.
- 11.08 Effects of Prenatal Alcohol Exposure on Neurobehavioral Function: Persistence at 26 Months ?
Melissa Kaplan-Estrin, Joseph L. Jacobson.
- 11.09 The effects of Prenatal Drug Exposure on African-American Preschoolers Living in Poverty.
J.A. Moore.
- 11.10 Risk and Resiliency in Drug Exposed Infant-Mother Dyads.
Karen O'Donnell, Brian Vaughn, Luanne McAdams, Carrie Auer, Geoffrey Georgi, Jeannine Glingras.
- 11.11 Developmental Outcome of Three Years of High Risk Infants Exposed To Cocaine Prenatally.
June B. Pimm, Charles R. Bauer, Patricia Stephens.
- 11.12 Videotaped Behavior Sampling Procedure to Measure Cognitive/Social Change Over Time in HIV-Infected Children.
Meredith Platt, Molly Nozce, Howard Moss, Kam Kairam.
- 11.13 A Primate Model of Mild Psychological Stress and Low-Level Alcohol Exposure During Pregnancy.
Mary L. Schneider, Elizabeth C. Roughton.

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Contributors:

- 1) Word and syllable structure in early phonology.
Marilyn Vilhman.
- 2) Motor constraints on infant phonological reorganization.
Peter MacNeilage, Barbara Davis.
- 3) Cross-language differences in early phonological organization.
Bénédicte de Boysson-Bardies.
- 4) A longitudinal study of prelinguistic gestures in deaf and hearing children.
Raquel Willemann, Richard P. Meier, Amanda Holzrichter.

S36. RELATIONSHIPS AS MEDIATORS AND MODERATORS OF INFANT REACTIVITY: PSYCHOBIOLOGICAL STUDIES.

Convenors:

SPANGLER, G.
GUNNAR, M.

Contributors:

- 1) The role of maternal sensitivity and quality of infant-mother attachment for infant biobehavioral organization.
Gottfried Spangler, Michael Schlicke.
- 2) The emergence of early self-regulatory capacities: influences of reactivity and the parenting environment.
Alice S. Carter, Susan Lee Goldman, Christina Little, Nina P. Kogan, Judith Rodin.
- 3) Infants' adrenocortical reactivity, observations of behavior, and mother-infant interaction in the first year of life.
Axel Schölmerich.
- 4) The psychology of attachment: Mother-infant interactions as a regulator of infant stress.
Megan Gunnar, Melissa Nachmias, Laurie Brodersen, Kent Krueger.

ROOM 206

S37. VISION SCREENING AND ASSESSMENT TECHNIQUES IN INFANTS AND PRE-SCHOOL CHILDREN.

Convenors:

ATKINSON, J.
VITAL-DURAND, F.

Contributors:

- 1) Field perimetry and visual threat response in screening vision in high-risk populations.
Jackie Van Hof-Van Duin.
- 2) Total population vision screening versus 'high risk' screening.
Janette Atkinson, Oliver Braddick, Shirley Anker, David Ehrlich.
- 3) Photorefractive measures of infant visual development.
Louise Hainline.
- 4) Visual risk factors among infants unlikely to be screened.
François Vital-Durand.
- 5) Critical review of techniques and practical applications of photoscreening.
Russell D. Hamer, Anthony M. Norcia.

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S38. CARDIAC VAGAL REGULATION IN CLINICAL AND HIGH-RISK SAMPLES.

ROOM 208

Convenors:

**DOUSSARD-ROOSEVELT
J.A. PORGES, S.W.**

Contributions:

- 1) *Vagal tone regulation in opiate exposed children.*
P. Suess, J. Hickey, D. Newlin.
- 2) *Cardiac vagal tone and vagal response to bottle feeding: Stability and usefulness in assessing low birthweight neonates.*
A.L. Portales.
- 3) *Cardiac vagal tone and social interaction correlates of development at two years.*
J.A. Hofheimer, L. Aydtlett, E. Lawson.
- 4) *Lack of cardiac vagal regulation in toddlers with infantile anorexia.*
I. Chatoor, A.L. Portales, Y. Rivera.

S39. QUALITY OF ATTACHMENT IN THE PRESCHOOL YEARS.

ROOM 241

Convenor:

CRITTENDEN, P.M.

Contributions:

- 1) *Security of attachment at 30 months: Maternal, infant, and family variables.*
Lucille Moore, Florence Crawford, Jerry Lester.
- 2) *Attachment: Infancy to preschool.*
Beverley I. Fagot.
- 3) *Correlates of preschool attachment security in a sample of depressed and non-depressed mothers.*
Douglas M. Tetl, Donna M. Gelfand.
- 4) *Comparison of two systems for assessing quality of attachment in the preschool years.*
Patricia M. Crittenden, A.H. Claussen.

8.30-10.30 a.m.

POSTER SESSIONS

F1. MOTHER - INFANT RELATIONS

ROOM 7

F1.01 Relations Between Maternal and Ecological Risk Factors and Maternal Behavior at 6-Months.

E. Camfield.

F1.02 Determinants of Parenting Among Latina Adolescent Mothers.

Marissa Diener, Josefina Contreras, Sarah Mangelsdorf, Liesette Brunson, Jean Rhodes.

F1.03 Relations Between Infant Response to Frustration and Maternal Behavior.

Wendy A. Etheridge, Celia A. Brownell.

F1.04 The Relationship Between Mother-Child Responsivity and Children's Coping Behavior in a High-Risk Sample.

Susan M. Hughes, Suzanne Dongier, Colette Boucher, Jeff Derevensky.

F1.05 Mother-Child Mutual Positive Affective Set, Quality of Child Compliance to Do's and Don'ts, and Maternal Control as Correlates of Early Internalization.

Grazyna Kochanska, Nazan Aksan.

F1.06 Transition, Choice, and the Experience of Motherhood.

Regina Kuecks-Morgan, Ester Shapiro, James L. Morgan.

F1.07 The Role of Tactual Interaction in Infant Development.

A. Lis, D. Mellano, P. Venuti.

4) *Relationships between mother-child social interactions developmental variables, and attachment behavior in young children with autism and with retardation.*

Sally J. Rogers.

S55. THE DEVELOPMENT OF SELF.

ROOM 20:

Convenor:

LEWIS, M.

Contributions:

- 1) *Self and self-conscious emotions.*
Michael Lewis.
- 2) *The early self: Dynamics of evaluation, culture, and consciousness.*
Robert Emde.
- 3) *A linguistic model of the study of self.*
Russell Meares.
- 4) *Subjective aspects of self-experience.*
Daniel N. Stern.

Discussant:

A. Grodon

S56. MUSIC IN INFANCY.

ROOM 20:

Convenors:

**LYNCH, M.P.
PAPOUSEK, H.**

Contributions:

- 1) *Lulling practices and lullabies in different cultures: A contribution to the study of mother-infant interaction.*
Helene E. Stork.
- 2) *Infant-directed singing: Acoustic analyses of infant preferences.*
Laurel J. Trainor.
- 3) *Cross-domain effects on perceptual grouping of melodic patterns in infants.*
Michael P. Lynch.

S57. EQUIVALENCE-CLASS FORMATION AND EMERGENT RELATIONS. ROOM 208

Convenor:

MODERATO, P.

Contributions:

- 1) *Development of naming, equivalence, and other emergent behavior.*
Pauline J. Horne, C. Fergus Lowe.
- 2) *Stimulus control, rule-governed behavior, equivalence relations.*
Jean-Claude Darcheville.
- 3) *Enhancement of equivalence class formation with infants: Implications for language acquisition.*
Lanny Fields.
- 4) *Developmental aspects of the perception of temporally based intersensory equivalence.*
David J. Lewkowicz.

Discussant:

Martha Pelaez-Nogueras.

H3.34 Contingency and Animacy in Young Infants.
Marta Legeestee.
 H3.35 Relations Between Habituation and Contingency Learning Performance in 5- to 12-Month-Old Infants.
 W. Stuart Millar, Catherine G. Weir.
 H3.36 Infants' Recognition of Briefly Presented Visual Stimuli as a Function of Attention Status.
 John E. Richards.
 H3.37 Patterns of Learning in the Mobile Conjugate Reinforcement Paradigm.
 Mathijs P.J. Verhoeve.
 H3.38 Context, Recognition & Habituation Rate.
 Janice Vidic, Melissa Faber.
 H3.39 Decision Time: A Predictor of 4- and 9-Month Old Infants' Learning.
 D. Wayne Mitchell.
ROOM 34
 H4.40 Symbolic Gesturing: A New Window on Sex Differences in Language Development.
 Linda Acredolo, Susan Goodwyn.
 H4.41 The Speech and Language Development of Very Low Birth Weight Children.
 H.C. Comijs, P.H. Dejongh, B.P. Cats.
 H4.42 Child-Adult Interaction as Mechanisms for the Construction and Regulation of Early Pretend-Play.
 M. Denegri, J. Linaza.
 H4.43 Gesture-Speech Combinations as Predictive of the Emergence of Two-Word Combinations.
 Jana M. Iverson, Virginia Volterra, Elena Pizzuto, Olga Capirci.
 H4.44 Nonverbal Communication in Infants: Gestures in Italian-Canadian Infants at 9 and 15 Months.
 Esther Olschansky.
 H4.45 Children's Language-Play Association in the Second Year: Describing Individual Profiles.
 Catherine Tami-LeMonda, Birgit Dysegard.
 H4.46 Language and Gesture in Spanish-Speaking Toddlers.
 Donna Thal, Donna Jackson-Maldonado, Dora Acosta.
 H4.47 Prelinguistic Intervention: A longitudinal Perspective on Communication and Language Outcomes.
 M. Jeanne Wilcox, Michelle R. Shannon, Catherine K. Bacon.

SYMPOsia

4-6 p.m.

S54. SOCIAL AND COMMUNICATIVE ASPECTS OF YOUNG AUTISTIC CHILDREN'S DEVELOPMENT. (Invited Symposium)

Convenors:
 NADEL, J.
 ROGERS, S.
Contributions:
 1) *A longitudinal examination of the communicative gestures deficit in young autistic children.*
 Luigia Cernantoni.
 2) *Gaze behaviours and communicative contingencies in autistic children.*
 Ricardo Canal Bedia, Angel Riviere.
 3) *On Infant development: A perspective from developmental psychopathology.*
 P. Hobson.

ROOM 162

F1.08 The Relation of Infant Participation in Early Mother/Infant Interactions to Later Cognitive Status.
 Barbara Louis.
 F1.09 The Previewing Structured Interview: Identifying Conflict in Mother-Infant Dyads.
 Paul V. Trud, M.J. Raine, M. Flann.
 F1.10 Comparison of Mothers' and Fathers' Child-Rearing Attitudes and Practices Toward their Toddler.
 M. Trudel, F. Martin, B. Bégin.
 F1.11 Characteristics of Mother-Child Interactions and Attachment Behavior in Autism.
 E.A. Wehner, R.J. Harmon, S.J. Rogers.
 F1.12 Socioeconomic Status and Mother-Infant Interaction in an Urban Sample.
 Diane E. Willie.
 F1.13 Observed Differences in Mother-Infant Interaction as a Function of Infant Locomotor Status.
 Marcia Zumbahlen.
 F1.14 The Use of Intonation and Physical Intervention in Regulating Infants' Unacceptable Behavior.
 Macia Zumbahlen, Hisayo Tokura.
F2. FACE PERCEPTION
 F2.15 The Effect of Visual Deficit on the Ability to Discriminate Affect in Still Photographs.
 Elizabeth Bauer, Patricia Riddell, Louise Hainline.
 F2.16 Newborn Headturning to Face-Like Stimuli.
 M.A. Easterbrook.
 F2.17 Infant Facial Expressions and Visual Recognition Memory.
 Lorelle R. Futterweit, Susan A. Rose, Jeffery J. Jankowski.
 F2.18 Face Processing in Young Autistic Children.
 B. Gepner, S. de Schonen, C. Buttin.
 F2.19 What's in a Monkey's Face? Asymmetric Glimpses and Honest Eyes.
 Marc Hauser.
 F2.20 Memory for Arbitrary Adult Face-Voice Pairs at Six-Months of Age.
 Maria Hernandez-Reif, Maricel Cigales, Brenda Lundy.
 F2.21 Neural Correlates of Face Recognition by Three-Month-Old Infants.
 Olivier Pascalis, Laura Matheny, Scania de Schonen.
 F2.22 Infant Preferences for Attractive Faces: A Cognitive Phenomenon?
 Jean M. Ritter, Lisa Foster, David Pillinghi, Wendi Bond, Judith H. Langlois.
 F2.23 Attractive Faces: Beauty Bias and Behavior.
 Lori A. Roggman, Judith H. Langlois.
 F2.24 Facial Aesthetics: Babies Prefer Attractiveness to Symmetry.
 Curtis A. Samuels, George Butterworth, Tony Roberts, Lida Graupner, Graham Hole.
 F2.25 The Role of Primacy in Neonatal Preference for the Mother's Face.
 Gail E. Walton.
 F2.26 Neonatal Perception of Faces as Forms.
 Gail E. Walton.
F3. BRAIN INJURY, HANDICAP AND PERINATAL COMPLICATIONS
ROOM 33
 F3.27 Neurodevelopmental Hypothesis of the Effects of Early Brain Damage: From Research on Infantile Autism and Childhood Leukemia.
 Kristina T. Ciesielski.
 F3.28 Piagetian Uzgiris-Hunt Scales in the Assessment of Normal and Motor Impaired Preterm Infants.
 G. Cloni, P.B. Paollicelli, C. Sord, B. Bertuccelli, A. Winter.
 F3.29 A Comparison of Diagnostic Coverage for a Clinical Population of Infants in Various Classification Systems.
 Marguerite Dunitz, Erich Kvas, Suzanne Macari, Peter J. Scheer.
 F3.30 Effects of Mode of Delivery on Infants' Earliest Sleep/Wake States.
 K. Freudigman, E.B. Thoman.

F3.31 The Relation of Maternal Style and the Language Development of Children with Down Syndrome.

Sharon Harris.

F3.32 Imitation in Young Infants with Down Syndrome - Some Preliminary Observations.

Mikael Helmann, Agneta Swerlander, Eva Ullstadius.

F3.33 Impaired Contrast Sensitivity in Children with Treated PKU, Presumably Due to Dopaminergic Deficiency.

C. Herzberg, A. Diamond.

F3.34 Persistent Crying in Infancy and Minor Neurological Abnormalities.

N. v. Hofacker, M. Malinowski, T. Jacubeit, M. Papousek.

F3.35 Speech and Language Development in a Child After Decannulation at Age 14 Months: A Case Study.

M.T. Le Normand, L. Douret, C. Wood.

F3.36 A Longitudinal Investigation of the Developmental Course of Pre-Term Infants not Walking at 18 Months Chronologic Age.

M.B. Mandich, S.L.K. Ritchie, C.J.R. Simons.

F3.37 Neuropsychological Effects of Low-Level Lead Exposure in 21-30 Month Infants.

Kristine S. Marchalonis, Natalie Sikka.

F3.38 Infant with Clefts During the First Year of Life.

Hallie E. Savage, James A. Lehman Jr.

F3.39 Cardiovascular Indices (Variability) Predicting Central Nervous System Maturation.

M.T. Verklan, P. Shaman, B. Medoff-Cooper.

F3.40 Mastery Motivation in Brain Injured Infants.

Peter M. Vietze, Ewa Kozlowski, Bonnie Ferrando, Tracey Cooney, Judith Gardner.

F4. TEMPERAMENT

ROOM 34

F4.41 Individual Differences in Sensory Reactivity and Temperament Among High Risk Infants.

Joan E. Beard, Irving J. Goodman, Michael J. Painter.

F4.42 Maternal Prenatal Expectations of Infant Temperament.

Rachel Chazan, Alice S. Carter.

F4.43 Stability and Change in Infant Temperament as a Function of Mother and Infant Characteristics.

Margaret Fish.

F4.44 Longitudinal Relations Between Parent and Caregiver Ratings of Temperament and Language in Daycare-Attending Children.

Kris Hannan, Lynne V. Feagans.

F4.45 Perceptions of Temperament and Postnatal Adaptation: Are they Predicted by Prenatal Maternal Reactivity to Infant Cries and do these Predictions Endure?

L.C. Huffman, F.A. Pedersen, R. DelCarmen, Y.E. Bryan.

F4.46 Genetic Analyses of Early Temperament.

K.S. Lemery, K.A. Buss, N. Aksan.

F4.47 Developmental Models of Infant Temperament.

K.S. Lemery, H.H. Goldsmith, M.D. Klennert, D.A. Mrazek.

F4.48 The Development of Emotional Expression in Preterm Neonates with Particular Reference to Pain.

Rhoda Martin, Sheila Glenn, Tilly Padden, Neil Berry.

F4.49 To Cope or Not to Cope: Emotion Regulation in Preterm and Full Term Infants.

Deborah Nagel, Jody Ganiban.

F4.50 Parity Differences in the Stability of Temperament Ratings from Early Pregnancy to 18.5 Mos. Postpartum.

C.J. Mebert.

F4.51 Early Transitions in Temperament and Physiology.

Maureen Rezendes.

F4.52 Attention Shifting at 5 Months: Predictor of Inattentiveness and Activity at 3.5 Years.

Margaret G. Ruddy.

H1.09 2.5-Month-Old Infants' Understanding of Collision Events.

Laura L. Kotovsky.

H1.10 Qualitative and Quantitative Reasoning About Collision Events.

Laura L. Kotovsky.

H1.11 Infants' Inferences About Contact Relations in a Causal Event.

Gretchen A. Van de Walle, Amanda L. Woodward, Ann T. Phillips.

H2. REACHING & REACHING IN RELATION TO VISION

ROOM 3

H2.12 Kinematics of Infants' Reaching with Monocular and Binocular Vision.

Janette Atkinson, Oliver Braddick, Bruce Hood.

H2.13 Early Development of Posture and Reaching in 5-8 Month-Old Infants.

Lee Barry, Philippe Rochat.

H2.14 Infant Reaching Strategies: Theoretical Considerations.

Neil E. Berthier.

H2.15 The Organization of Spontaneous Arm/Hand Activity in Newborns.

Susan Bewley, Gerald Turkewitz.

H2.16 Visual Control Upon Hand Reaching Movements in Neonates.

Khereddine Ennouri, Corinne Dubon, Christine Notides, Henriette Bloch.

H2.17 The Palmar Grasp Reflex and Voluntary Reach-and-Grasp in the First Half Year of Life.

Mary P. Grattan, Jolynne D. Andal, Jerre Levy, Martha McClintock.

H2.18 The Role of Vision in Early Reaching.

Daniel D. McCall, Daniel J. Robin, Neil E. Berthier, Rachel K. Clifton.

H2.19 Lateralization of Reaching and Grip Movements in 3-7 Month Infants.

Françoise Morange.

H2.20 Prehension Intention from 12 to 22 Weeks.

Julie C. Rutkowska.

H2.21 Manual Lateralization and Tactile Habituation in 2-Month-Old Infants.

Hervé Segond, Arlette Stréri.

H2.22 Changes in Neuromotor Control as Reaching Develops.

John P. Spencer.

H2.23 Mouthing and Grasping in Young Infants.

V.A. Whyte, P.V. McDonald, R. Baillargeon, K.M. Newell

H3. ATTENTION, HABITUATION AND LEARNING

ROOM 3

H3.24 Movement-Attention Coupling and the Response to New Visual Stimuli.

Leigh F. Bacher, Steven S. Robertson, James L. Reilly.

H3.25 The Baby and the Bath Water Revisited: Completion and Non Completion in Habituation Tasks.

Clare Bell, Patrick Bell, Robert Yeung.

H3.26 Learning and Memory in 6-Month-Old Infants: The Influence of Contextual Variation.

Julie Brousseau, Gérard Malcuit, Andrée Pomerleau.

H3.27 Discrimination Problem Solving by Four-Month-Olds: Discontinuous Learning and Dimensional Transfer.

Jeffrey T. Coldren, Robert A. Haaf.

H3.28 Conditioning of a Joint Attention Response to Two Different Cues.

Valerie Corkum, Chris Moore.

H3.29 Temporal Regulation in Infant under FI Schedule of Reinforcement.

J.C. Darcheville, V. Rivière.

H3.30 Exploring the Primal Moments in Infant Memory for Visual Compounds.

Di Catherwood, Vanessa Green, Petra Skoien.

H3.31 Effects of Violation of Expectancy in Contingency Learning Situation in 3 1/2 Month Old Infants.

S.M. Glenn, Y. O'Brien, C.C. Cunningham, R. Schofield.

H3.32 Longitudinal Measures of Habituation from Birth to Six Months.

Bruce Hood, Lynne Murray, Fiona King, Richard Hooper, Janette Atkinson, Oliver Braddick.

H3.33 The Distribution of Visual Attention in Infants.

Jeffery J. Jankowski.

2) Nonverbal communication and the nature of early social interaction skills.
 Peter Mundy, Jeff Selbert.

3) Nonverbal communication and sensorimotor intelligence: Research on children with atypical development.
 Christiane Lepot-Froment, Nathalie Nader-Grosbois, Isabelle Simon.

4) The development of interactive skills with an adult: Cognitive, communicative and social aspects - some considerations from research with normal children.
 Michèle Guidetti, Catherine Tourrette.

ROOM 241

Convenors:
 ZUKOW-GOLDRING, P.
 OSHIMA-TAKANE, Y.

Contributions:
1) The emergence of intentional communication and the "joint attention" hypotheses.
 Luigia Camaloni.

2) Joint attention as social cognition.
 Michael Tomasello, Malinda Carpenter.

3) Educating attention: An ecological approach to achieving consensus.
 Patricia Zukow-Goldring.

4) Joint attention and lexical development.
 Yuriko Oshima-Takane, Janis Oram.

3-6 p.m.

WORKSHOP

W3. LARGE MULTI SITE STUDIES OF CHILD DEVELOPMENT: SCIENTIFIC ADVANTAGES AND LIMITATIONS.

ROOM 262

Convenor:
 FRIEDMAN, S.

1.30-3.30 p.m.

POSTER SESSIONS

H1. CATEGORIZATION - CAUSALITY

ROOM 7

H1.01 Ten-Month old Infants Categorize Form, But Not Function.
 Kelly L. Madole, Leslie B. Cohen, Kristi Bradley.

H1.02 Developmental Changes in Use of Categorization Skills Between 10 and 13 Months.
 Jodie M. Plumert, Lisa M. Oakes, Jennifer D. Merryman, Jeffrey M. Lansink.

H1.03 Categorization and Central Representation in 3 Month-Old Infants.
 Christine Poitier.

H1.04 Young Infants' Use of Facial Configuration Information Permits Categorical Differentiation of Natural Animal Species.
 Paul C. Quinn, Peter D. Eimas.

H1.05 The Development of Abstraction in Shared Manipulation of Little Objects.
 Sylvie Rayna.

H1.06 Categorization and Procedural Variation.
 C. de Saint Victor, P. Hull Smith, T. Wierich.

H1.07 Recognizing New Events as Old: The Effect of Script Organization at 6 Months of Age.
 P. Hull Smith, L. Rescara-Kovach, T. Loboschewski, C. de Saint Victor.

H1.08 How Infants Perceive the Causality of Physical Events.
 Leslie B. Cohen.

11 a.m. - 1 p.m.

SYMPOSIUM

S40. ORIGINS OF MIND: NEW FINDINGS, NEW THEORIES.

ROOM 262

Convenor:
 BERTENTHAL, B.I.

Contributions:

1) What mechanism guides infants' acquisition of physical knowledge?
 Renée Baillargeon.

2) Knowledge in Infancy: Four Questions.
 Elizabeth Spelke.

3) Representation of persons: A bridge between infants' understanding of people and things.
 Andrew N. Meltzoff.

S41. IMPROVING SENSITIVITY AND SPECIFICITY IN THE DETECTION OF EFFECTS OF PRENATAL ALCOHOL AND DRUG EXPOSURE ON INFANT DEVELOPMENT.

ROOM 162

Convenor:
 JACOBSON, J.L.

Contributions:

1) Identifying prenatal cocaine exposure from attention/arousal behavior in early infancy.
 Bernard Z. Karmel, Judith M. Gardner.

2) Fetal alcohol exposure and speed of information processing in infants.
 Sandra W. Jacobson.

3) Assessment of discrete functions in cocaine-exposed infants.
 Steven M. Alessandri.

4) The threat of type II error in alcohol and drug studies: Detecting the real effects.
 Joseph L. Jacobson.

Discussant:
 Charles W. Greenbaum.

S42. SEGMENTATION AND RECOGNITION PROCESSES IN INFANTS' INITIAL IDENTIFICATIONS OF WORD-LEVEL UNITS.

ROOM 203

Convenor:

ECHOLS, C.H.

Contributions:

1) Linguistic experience and early speech segmentation.
 James L. Morgan.

2) Infants' preferences for linguistically-relevant rhythmic patterns.
 Catharine H. Echols, Megan J. Crowhurst.

3) Early receptive lexicons: Representations of word-sounds.
 Pierre A. Halle, Bénédicte De Boysson-Bardies.

4) When do sounds become words?
 Peter W. Juszczyk.

Discussant:
 Anne Cutler.

**S43. UNDERSTANDING EARLY AFFECTIVE RESPONSE:
THE CONTRIBUTION OF PHYSIOLOGICAL APPROACHES.**

ROOM 212

Convenor:

SNIDMAN, N.

Contributions:

- 1) *Electro-cortical responses to facial expressions.*
Charles A. Nelson, Michelle De Haan.
- 2) *Infant reactions to adult facial expressions; the startle reflex as an affective probe.*
Marie T. Balaban.
- 3) *Individual differences in thermographic and cardiac response to affective stimuli.*
Nancy C. Snidman.
- 4) *Relation between frontal EEG asymmetry and behavioral inhibition during the first two years of life.*
Louis A. Schmidt, Susan D. Calkins.

(Invited Symposium)

S44. POSTURE AND GOAL DIRECTED BEHAVIOUR.

ROOM 206

Convenors:

**SAVELSBERGH, G.J.P.
Von HOFSTEN, C.**

Contributions:

- 1) *To reach or not to reach ? Postural and perceptual determinants of infant reaching.*
Philippe Rochat, Lee Barry.
- 2) *The influence of postural development on the development of skilled reaching.*
Kathi Kamm.
- 3) *Constraints on reaching.*
Lia Out, Geert Savelsbergh, Brian Hopkins.
- 4) *Straightening, rotations, and reaching in infancy.*
André Bullinger.
- 5) *Sensomotor and motor development in normal and visual deprived infants.*
Elena Sergienko.
- 6) *Developing an ability to stabilize gaze during body motion and/or motion of the visual field.*
Kerstin Rosander, Claes Von Hofsten.

S45. METHODOLOGICAL APPROACHES IN INFANT AUDITION.

ROOM 208

Convenors:

**BARUCH, C.
WERNER, L.**

Contributions:

- 1) *Methodological issues in infant auditory psychophysics.*
Bruce Schneider, Sandra Trehub.
- 2) *Tempo discrimination in infants: An habituation method.*
Clarisse Baruch.
- 3) *Has and newborns: Limitations and perspectives.*
Caroline Floccia.
- 4) *New directions in infant auditory perception research.*
Lynne Werner.

1/2 **Contributions:**

- 1) *Constraints on intermodal transfer between touch and vision in infancy.*
Arlette Stréri.
- 2) *Neonatal synesthesia can account for early cross-modal transfer.*
Daphne Maurer, Cathy Mondloch.
- 3) *Developmental implications of qualitatively different mechanisms of intersensory integration.*
David J. Lewkowicz.
- 4) *Cross-modal perception during infancy: Inferences from mixed results.*
Emily W. Bushnell.

Discussant:

Yvette Hatwell

**S50. DEVELOPMENTAL NEUROPSYCHOLOGY: IMPLICATIONS
FROM STUDIES IN GREAT APES.**

ROOM 21

Convenor:

BARD, K.A.

Contributions:

- 1) *Predicting laterality in young chimpanzees on the basis of neonatal neurobehavioral mechanisms.*
Kim A. Bard.
- 2) *A novel technique for studying lateralization of the grasping reflex in neonates: Preliminary data with chimpanzees.*
Joel Fagot, Kim A. Bard.
- 3) *Cross-species comparisons for speech sound discrimination.*
Dennis L. Molfese.
- 4) *Asymmetries in the production of facial expressions in infant chimpanzees (pan troglodytes).*
William D. Hopkins, Lisa Parr.

S51. EARLY SENSE OF SELF.

ROOM 20

Convenor:

ROCHAT, P.

Contributions:

- 1) *Arm movements in the neonate: Establishing a frame of reference for reaching.*
Audrey L.H. Van der Meer.
- 2) *Foundations for the notion of self.*
Andrew N. Meltzoff.
- 3) *Origins of self-perception.*
Philippe Rochat, Rachel Morgan.
- 4) *Understanding the self as social agent.*
Michael Tomasello.

**S52. EARLY SOCIAL INTERACTION SKILLS: EVALUATION AND
DEVELOPMENT.**

ROOM 20

Convenor:

TOURRETTE, C.

Contributions:

- 1) *Development of the ESCS: Links among theoretical and psychometric issues.*
Anne Hogan, Jeffrey Seibert, Peter Mundy.

S47. LONG-TERM EMOTIONAL COMPETENCE CORRELATES OF EMOTIONAL COMPONENTS OF TEMPERAMENT.

ROOM 262

Convenors:

DENHAM, S.A.
MOSEr, M.

Contributions:

- 1) Temperamental precursors of inhibition, social withdrawal, and social competence.

Susan D. Calkins, Nathan A. Fox.

- 2) Temperament, environment, and the representation of affect in narrative.

H. Hill Goldsmith.

- 3) Attachment, temperament, and emotion regulation: A longitudinal investigation of developmental mechanisms.

Kathy Stansbury, Laura K. Zimmerman.

- 4) Temperament as antecedent of emotional regulation.

Konald Seifert, Mascha Schiller.

2-4 p.m.

S48. PATTERNS OF NEURODEVELOPMENTAL MANIFESTATIONS IN PEDIATRIC HIV INFECTION.

ROOM 162

Convenors:

O'DONNELL, K.
MCKINNEY, R.
WATSON, E.
WILFERT, C.

Contributions:

- 1) Pediatric aids: A multifactorial model of neurodevelopmental assessment.

Cynthia Chase.

- 2) The impact of HIV infection and HI-risk factors on neurodevelopmental functioning.

Molly Nozyc, Mara Hoberman.

- 3) Assessing language development in HIV infected infants and toddlers using the MacArthur CDI.

S.L. Nichols, S. Subbacher, C. Kimpso.

- 4) Pediatric HIV/aids and neurodevelopment: A status report.

Molly Nozyc, Karen O'Donnell, Cynthia Chase, Sharon Nichols, Diana Gibb.

(Invited Symposium)

S49. INTERMODAL TRANSFER BETWEEN TOUCH AND VISION DURING EARLY INFANCY.

ROOM 203

Convenors:

STREIB, A.
MAURER, D.

S46. CATCHING THE OTHER'S EYE: THE ROLE OF JOINT ATTENTION IN EARLY SOCIAL DEVELOPMENT.

ROOM 241

Convenor:

RAVER, C. C.

Contributions:

- 1) The origins of joint attention.

Valerie Corbun.

- 2) The relation between joint attention and toddlers' empathic response to others' distress.

C. Cybele Raver.

- 3) Visual gaze patterns in mother-child and child-peer social interactions.

Cynthia Littleford, JoAnn Robinson.

- 4) Joint attention and the Easter bunny: A field study of social referencing.

Beth A. Shepard, Johanna Rich Tesman.

POSTER SESSIONS

11 a.m. - 1 p.m.

G1. MOTHER OR FATHER - INFANT - RELATION

ROOM 7

- G1.01 Gazing Behavior During Early Social Interactions: A Review After 40 Years of Research.

Alain Brossard.

- G1.02 A Mathematical Model of Mother-Infant Interaction.

- G1.03 Arousal Regulation in En Face Social Encounters: Biological Risk and Prior Interactive Experience.

C.L. Crown, D.C. Flaspohler, J. Jaffe, S. Feldstein, B. Beebe.

- G1.04 Social Competence and Interaction Through a Continuous Intervention - A Nine Year Follow-Up.

- G1.05 Shared Everyday Activities as Contexts for Infant Development.

- G1.06 Organization of Parent-Child Repair and Non-Repair Sequences in Routine Interactions at 15 and 21 Months.

- G1.07 Paternal Teasing Behaviors During a Play Situation with Toddlers.

- G1.08 Infants' Interactive Behavior with Mother in Familiar and Novel Situations.

- G1.09 The Relation Between 2-Year-Olds' Strategies of Emotional Self-Regulation and Mother-Child Reciprocity.

- G1.10 Determinants of Mothering: A Longitudinal, Ecological Analysis.

- G1.11 Caregiver-Infant Interaction and Developmental Potentials.

- G1.12 Congruency Perception in Early Infancy: Vocal Turn-Taking and Visual Expectations.

- G1.13 Motor Control and Infant Attention During Early Communication.

- G1.14 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.15 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.16 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.17 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.18 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.19 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.20 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.21 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.22 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.23 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.24 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.25 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.26 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.27 Maternal Sensitivity and Dyadic Correspondences in the Development of Infant Social Skill.

- G1.15 The Role of Infant Age and Maternal Depressive Symptoms in Maternal Perceptions of Infant Intentionality.
M. Suzanne Zeedyk.

G2. MATERNAL DEPRESSION AND ITS EFFECTS ON THE INFANT ROOM 32

- G2.16 Chiming: A Vocal Behavior That Discriminates Depressed from Non-Depressed Mothers in Face-to-Face Play with their 4-Month Infants.
Samuel Anderson, Beatrice Beebe, Marina Koulomzin, Joseph Jaffe.
- G2.17 Mother-Infant and Father-Infant Interactions in Post-Partum Depression.
H. Chabrol, N. Bron, J. Le Camus.
- G2.18 Early Interactions Between Depressed Mothers and their Child.
F. Cukier-Hemeury, J. Latoch, O. Rosenblum, L. Conquy, Ph. Mazet.
- G2.19 Severe Postnatal Mental Illness and the Psychological Development of the 4 Year Old: A Controlled Follow-Up Study.
L.C. Davies, A.E. Hipwell, R. Kumar.
- G2.20 Effects of Postpartum Depression on Infant Behaviour and Development.
Arlene Dover.
- G2.21 Mothers' Responses to Infant Crying: The Influence of Maternal Depression.
Arlene Dover.
- G2.22 Can Population Screening for Post-Natal Depression Optimize Parent-Infant Outcomes?
N. Kowalenko.
- G2.23 Maternal Stress Reduction with Skin Contact with Premature Infants.
Susan Ludington-Hoe, Joan Swinth, Nhuha Nguyen.
- G2.24 Home Observation of Depressed Mothers and their Two Year old Offspring: Effects of Depression Remission on Maternal and Child Behavior.
Cynthia Neff.
- G2.25 Elements of Vulnerability in the Psycho-Affective Development Among Children of Depressed Mothers (0-30 Months).
O. Rosenblum, F. Cukier-Hemeury, L. Conquy.
- G2.26 Maternal Depression and its Relation to Behavioral Inhibition During the Second Year of Life.
Louis A. Schmidt, Ariana Shahinfar.
- G2.27 Boys and Girls of Depressed Mothers: Differences in Emotional Expressivity and Self-Regulation During Early Infancy.
M. Katherine Weinberg, Karen Olson.

G3. PREDICTION AND EVALUATION OF OUTCOME IN HIGH-RISK INFANTS

ROOM 33

- G3.28 Social-Emotional and Neuropsychological Outcome at School Age of Children with Perinatal Complications.
Kayreen Burns, Joseph Burns, Ruth Deddish.
- G3.29 N.B.A.S. and Cry Analysis as Assessment Between Vaginal Birth and Elective Cesarean Section.
Suzanne Colin.
- G3.30 NNNS Assessment.
Kliti Freier, Zack Boukydis.
- G3.31 Benefits of Early Stimulation in Full-Term and Preterm Infants.
James Gatts, Douglas Wallace, Ron Cohen, Steve Fernbach.
- G3.32 Sequential Behavioral Analysis of the NBAS in the Term and Preterm Infant.
Angela M. Silva Haddad, Barry M. Lester.
- G3.33 The Impact of Gestosis and Intrauterine Growth Retardation (IUGR) on the Development of Children in their First Years of Life.
R. Hildebrandt, J. Maassen, A. Schäfer, H. Weitzel.
- G3.34 A Six-Year Follow-Up Comparison of Intellectual Functioning of High Risk Preterm Infants and Normal Full-Term Infants for Each Gender.
Norman Himel, Margaret Lesperance.
- G3.35 Psychosocial Variance in Pediatric HIV Outcomes.
David L. Jaquess, Margaret Greer, Jack W. Finney, George Johnson.
- G3.36 Stimulation Modes Experimented by Preterm and Full-Term Infants During the First Six Months of Life.
Sophie Leroux, Andrée Pomerleau, Gérard Malcuit.

- G3.37 Development of Phonological Processing and Reading Skills in 7 Year Old Children who were Born Prematurely.
Margaret Lesperance, Norm Himel.

- G3.38 Educational Needs of At-Risk Kindergarten Children.
Alicja Maurer.

- G3.39 Perceived Helpfulness and Satisfaction with Support Provided to Mothers and Fathers of Medically Fragile Infants.
Margaret S. Miles, Susan Brunssen, Peg Burchinal.

- G3.40 Growth Patterns of Preterm Infants from One to Nine Years of Age.
Heather Mohay, Gabrielle Hindmarsh, Shu-ying Zhao.

- G3.41 Prospective Validity of the Neurological Examination in Early Infancy.
Barbara Ohrt, Birgit Grauert, Thorsten Meiser.

- G3.42 Effects of the Brazelton (NBAS) on Maternal Behaviors and Paternal Perceptions and Knowledge Towards their first Born Premature Hospitalized Infant.
C. Piché, R. Tessier, M. Granger, J. Allard.

- G3.43 Evaluation of Newborn Reflexes.
Jana L. Pressler, Joseph T. Hepworth, Mark I. Appelbaum, Rose Harcar Sevcik, Edward L. Hoffman.

G3 (CONTINUE)

ROOM 34

- G3.44 Neonatal, Maternal, and Environmental Predictors of Mental Development at 18 and 30 Months in a Rural Poor Sample.
H.N. Ricciuti, M. Thomas.

- G3.45 Three Year Outcome of High-Risk Neonates.
Pamela M. Wallace, Diane Koch.

- G3.46 Father Involvement and Cognitive/Behavioral Outcomes of Preterm Infants.
Michael W. Yogman, Daniel Kindlon.

G4. MATERNAL BEHAVIOR AND ATTACHMENT

ROOM 3

- G4.47 Maternal Representation and Disorganized Patterns of Attachment in Children.
M. Ammaniti, A.M. Speranza.

- G4.48 Attachment and Emotion Regulation in Preschool Children.
Lisa J. Berlin, Jude Cassidy.

- G4.49 Use of Transitional Objects in 24-Month Olds.
Katherine A. Black, Wendy Wagner Robeson, Frances Chickering.

- G4.50 Psychosocial Determinants of Maternal Behavior and Infant Attachment.
Kathleen M. Corns, Nancy Heaton, Colleen Coulehan, Rina Das Eiden.

- G4.51 Attachment Security, Perspective-Taking, and the Sibling Relationship.
Lynda Evans, Jennifer Jewel.

- G4.52 Jealousy Protest.
Sybil Hart, Claudia del Valle, Marc Letourneau.

- G4.53 Quality of Attachment and Memory in Young Children.
Steven J. Kirsh, Jude Cassidy.

- G4.54 Mothers of Insecure Infants, Self-Referent Judgments, and Information Processing.
Kate Rosenberger.

- G4.55 Parent-Child Role Reversal Attachment Theory Family Systems & Psychoanalytic Interpretations of Psychological Dependence on a Child.
Judith Solomon, Carol George, Deborah Jacobvitz, Molly Kretchmar, Michael Wright, Andrea Devis, Krista Swenson, Farida Anwar, Leila Beckwith.

- G4.56 Attachment Classifications in a Sample of Mothers and Fifteen Month Infants from China.
Dai Yaohau, Sun Jing, He Tien, Liu Yulan.

- G4.57 Consolidation of Skills Over Age and the Impact of Early Risk Factors.
Margaret Bendersky.