INTERNACIONAL CONGRESS

MOTOR DEVELOPMENT AND LEARNING IN INFANCY II:
FUNDAMENTAL CONCEPTS AND APPLICATIONS

PROGRAM

10th-13th May 2005

Murcia, Spain

DECLARADO DE INTERÉS CIENTÍFICO-SANITARIO
(CONSIDERED OF SANITARY-SCIENTIFIC INTEREST)
INVITATION

On May 2001 researchers and practitioners working on perceptual- motor development met in Amsterdam to discuss together the latest advances in the field. They were three intensive days where well- known names in the areas as well as young scientists had the opportunity to show us their newest ideas and studies. And all of us could enjoy a wonderful weather and romantic cruises around Amsterdam’s Canals.

This time we will meet in the sunny Spain. We will devote our Conference to Fundamental Concepts and Applications from a multidisciplinary perspective. We welcome researchers and practitioners in movement science, psychology, paediatrics, physical activity and neuroscience to submit oral and poster presentations.

Honour committee

EXCMO. SR. D. RAMÓN LUIS VARCÁRCEL
President of the Autonomous Community of Murcia

EXCMO. SR. D. MIGUEL ANGEL CÁMARA BOTÍA
Mayor of the Town Hall of Murcia

EXCMO. Y MAGNÍFICO SR. D. JOSÉ BALLESTA GERMÁN
Chancellor of the University of Murcia

ILMO. SR. D. JESÚS GÓMEZ AMOR
Dean of the Faculty of Psychology of the University of Murcia

PROF. Dr. Geert J.P. SAVELSBERGH
Vrije Universiteit, Amsterdam, The Netherlands and Manchester Metropolitan University, UK

ORGANIZATION

Organisers

Prof. Dr. G.J.P. Savelbergh Vrije Universiteit, Amsterdam, The Netherlands and Manchester Metropolitan University, UK
Prof. Dr. J. A. Carranza Universidad de Murcia, Spain
Dr. M. Olmos Universidad de Murcia, Spain
**Local organisation**
Dr. M. Olmos  
Prof. J.A. Carranza  
Dr. A. Escudero  
Dr. Mª T. Calvo-Llena

**Keynote Speakers**
Prof. Dr. Scott P. Johnson  
New York University, USA  
Prof. Dr. Dilwyn Marple-Horvat  
Manchester Metropolitan University, UK  
Prof. Dr. Wolfgang I. Schöllhorn  
University of Münster, Germany

**Scientific committee**
Prof. Dr. K. Adolph  
New York University, New York, USA  
Dr. R. Angulo-Barroso  
University of Michigan, Ann Arbor, USA  
Prof. Dr. B. Bertenthal  
University of Chicago, Chicago, USA  
Prof. Dr. B. Bril  
L’École des Hautes Études, Paris, France  
Prof. Dr. J. Clark  
University of Maryland, College Park, USA  
Prof. Dr. C. von Hofsten  
University of Uppsala, Uppsala, Sweden  
Dr. A. Ledept  
Vrije Universiteit, Amsterdam, The Netherlands  
Prof. Dr. K. Newell  
Pennsylvania State University, USA  
Dr. J. van der Kamp  
Vrije Universiteit, Amsterdam, The Netherlands  
Prof. Dr. B. Ulrich  
University of Michigan, Ann Arbor, USA
Tuesday 10th of May

19.00. Registration at the Conference Venue.

Conference venue
Salón de Actos (Conference Room)
Facultad de Letras (Faculty of Letters)
Campus de La Merced
c/ Santo Cristo, 1
Murcia

20.30. Opening Ceremony and Welcome Reception.
It will be held in the Salón de Plenos of the Town Hall of Murcia (called "Ayuntamiento"). Address:
Glorieta de España, s/n.

See map on ‘tourist information’ of the webpage: [http://www.um.es/mdl2005](http://www.um.es/mdl2005)

Wednesday 11th of May

See address for conference venue above.

08.30 Registration is open
08.00-09.00 Speakers can check out their Power Point presentation in the lecture room
09.00-09.05 Welcome speech
09.05-09.10 Welcome by Geert Savelsbergh

Session I 09.15-10.45

Chair: Beverly Ulrich

09.15-09.45
Bennett Bertenthal
Department of Psychology, University of Chicago, USA.
*Infants’ predictive tracking of briefly occluded objects*

09.45-10.15
Donna Thompson
Department of Psychology, Niagara University, USA.
*Infant perceptual-motor strategies during visual preference tasks*
10.15-10.45
Geert Savelsbergh and John van der Kamp
Institute for Fundamental and Clinical Human Movement Sciences, Faculty of Human Sciences, Vrije Universiteit, Amsterdam, The Netherlands & Institute for Biophysical and Clinical Research into Human, Manchester Metropolitan University, UK
Perceptual degrees of freedom investigating through interceptive actions

10.45-11.15
Break: Coffee and tea are available.
Coffee and lunch will be served at Ipanema Coffee Bar (Address: Puerta Nueva, 1; Opposite the Main Door of the University) everyday.

Session II  11.15-12.45
Chair: Jose Antonio Carranza

11.15-11.45
Bernard Z. Karmel1,2, Judith M. Gardner1,2, Robert L. Freedland1,2, Inna Miroshnichenko1,2, Elaine Marchi1,2, Anthony Barone2, and Anantham Harin2
1New York State Institute for Basic research in Developmental Disabilities
1050 Forest Hill Road, Staten Island, New York, USA
2St. Vincent's Catholic Medical Centers of New York, St. Vincent's Hospital, Staten Island, New York, USA
Stimulus modulated motor activity in NICU infants

11.45-12.15
Francois Jouen1 and Michele Molina2
1. Laboratoire Développement et Complexité, Ecole Pratique des Hautes Etudes, Paris, France
2. Laboratoire Psychologie et Neurosciences de la Cognition, Université de Rouen, France
Epigenetic approaches to manual activity in human newborn

12.15-12.45
Jan Piek, Nicholas Barret & Nielson Martin
School of Psychology, Curtin University of Technology, Australia.
Limb asymmetries in early infancy and their impact on the development of crawling and handedness in preterm and fullterm infants

13.00-15.00
Buffet lunch in combination with the posters session.
Posters

The number refers to position of the poster. A surface of 120 cm (high) x 90 cm (wide) will be available for each poster. Posters should be readable from a distance of two meters.

All posters will be exposed on Wednesday and Thursday.

A. Infancy posters

1. Temporal patterns of arm and body movement during the transition to reaching
   L.F. Bacher & S. Robertson (Cornell University)
   Department of Psychology, Oswego State University, Oswego, NY, USA

2. Walking experience shapes obstacle avoidance in infants
   J.A. Barela & A.P. Bortolaia.
   Laboratório para Estudos do Movimento (LEM), Departamento de Educação Física, UNESP, Rio Claro, Brazil.

3. The emergence of purposeful reaching I: cross sectional changes in toy-oriented hand and joint kinematics
   Lee H, Bhat A, Heathcock J, Galloway JC
   Infant Motor Behavior Laboratory, Dept. of Physical Therapy, Biomechanics and Movement Science Program, University of Delaware, Newark, USA.

4. The emergence of purposeful reaching II: Longitudinal changes in toy oriented hand kinematics
   Bhat A., Heathcock J., Galloway J. C.
   Infant Motor Behavior Lab, Dept. of Physical Therapy, Biomechanics and Movement Sciences Program, University of Delaware

5. The emergence of purposeful reaching III: Longitudinal changes in toy oriented joint kinematics
   Bhat A., Heathcock J., Galloway J. C.
   Infant Motor Behavior Lab, Dept. of Physical Therapy, Biomechanics and Movement Sciences Program, University of Delaware

6. Learning to Ascend and Descend Stairs
   Sarah Berger 1, Carolin Theuring 2, & Karen Adolph 3
   1. Department of Psychology, The College of Staten Island, The City University of New York,
   2. Max Planck Institute, Munich,
   3. Department of Psychology, New York University

7. Discovering the constraints of the task and the affordances of the tools
   Blandine Bril, Julie Foucart
   Groupe de Recherche Apprentissage et Contexte
   Ecole des hautes Etudes en Sciences Sociales, Paris, France

8. Locomotor Adaptations to Altered Center of Mass (COM) Position in Toddlers
   Ugo H. Buzzi & Beverly D. Ulrich
   Division of Kinesiology, University of Michigan, UA
9. Muscle Activation Variability in New Walkers and After Three Months Walking Experience
Chia-Lin Chang, Masayoshi Kubo, and Beverly Ulrich
Division of Kinesiology, University of Michigan, USA

10. Instability of sitting posture during transition to independent walking
Chen, L-C. Metcalfe, J., Jeka, J. Clark, J.E.
Department of Kinesiology, University of Maryland, College Park, USA

11. Affordances and imitation in object manipulation
J. Fagard, J. Lockman, P. Sorrentino, C. Lemoine, and E. Devouche
Laboratoire Cognition et Développement, CNRS,
Institut de Psychologie, Boulogne-Billancourt Cedex, Paris, France
Department of Psychology, Tulane University, New Orleans, USA

12. Ontogeny of skilled hammering in one- to two-year olds
Dorothy M. Fragaszy¹, Kathy Simpson², and Sarah Cummins-Sebree³
1. Psychology Dept., University of Georgia, USA
2. Kinesiology Dept., University of Georgia, USA
3. Raymond Walters College, University of Cincinnati, USA

13. Predicting developmental outcomes at 3 and 4 years from infant performance: A dynamic systems approach.
N. Gasson¹, J.P. Piek¹, N.C. Barrett¹ & D. Dewey²
1. School of Psychology, Curtin University of Technology, Perth, Western Australia
2. Dept of Pediatrics, University of Calgary, Canada

14. The effect of enhanced movement experience on motor behavior of Preterm infants: Performance in the mobile paradigm
Heathcock, Jill and Galloway, James C. (Cole)
Infant Motor Behavior Lab, Dept of Physical Therapy, Biomechanics and Movement Science Graduate Program, University of Delaware, Newark, USA

15. The effect of enhanced movement experience on motor behavior of Preterm infants: Emergence of hand and feet reaching
Heathcock, Jill and Galloway, James C. (Cole)
Infant Motor Behavior Lab, Dept of Physical Therapy, Biomechanics and Movement Science Graduate Program, University of Delaware, Newark, USA

16. Performance of Full-term and Preterm infants in the Mobile Paradigm: Learning, Memory and Kicking Patterns
Heathcock, Jill, Bhat, Anjana, Lobo, Michele and Galloway, James C. (Cole)
Infant Motor Behavior Lab, Dept of Physical Therapy, Biomechanics and Movement Science Graduate Program, University of Delaware, Newark, USA

17. Infant sensitivity to the properties of objects with handles
Alexa W. Khawar, Kristine S. Bourgeois, S. Ashley Neal, Jeffrey J. Lockman
Tulane University Psychology Department, New Orleans, USA
18. Hand differences in reaching when the object moves as the hand approaches

F. Morange-Majoux and J. Fagard
Laboratoire Cognition et Développement, CNRS,
Institut de Psychologie, Boulogne-Billancourt Cedex, Paris, France

19. Infant manual sensitivity to object-surface relations

S. Ashley Neal, Sarah A. Fontenelle, Alexa W. Khawar, Sascha Kahrs, A. Taylor, Newton, Jeffrey J. Lockman
Tulane University Psychology Department, New Orleans, USA

20. Coordination of pelvis and head-arms-trunk (HAT) in anterior-posterior and medio-lateral directions during treadmill gait in preadolescents

Masyoshi Kubo and Beverly Ulrich
Division of Kinesiology University of Michigan, USA

21. General and Task-related Experiences Affect Early Object Interaction

Michele A. Lobo¹, James C. Galloway¹ & Geert J.P. Savelsbergh²
1. The University of Delaware
2. Vrije Universiteit & Manchester Metropolitan University

22. Effects of Social, Postural, and Movement Experiences on Infants’ Abilities to Contact & Explore Objects

Michele A. Lobo & James C. Galloway
The University of Delaware. Newark, USA

23. Control of Motion in Medial-Lateral versus Anterior-Posterior Directions: New Walkers

Julia Looper and Beverly Ulrich
Division of Kinesiology, University of Michigan, USA

24. Three-to nine-months- old infants’ control of catching and perception of catchability

Paulion Van Hof, John van der Kamp & Geert J.P. Savelsbergh
Institute for Fundamental and Clinical Human Movement Sciences, Faculty of Human Sciences, Vrije Universiteit, Amsterdam, The Netherlands & Institute for Biophysical and Clinical Research into Human, Manchester Metropolitan University, UK

25. The confluence of intrinsic and extrinsic constraints on 3- to 9-month-old infants’ perception of catchability

Paulion Van Hof, John van der Kamp & Geert J.P. Savelsbergh
Institute for Fundamental and Clinical Human Movement Sciences, Faculty of Human Sciences, Vrije Universiteit, Amsterdam, The Netherlands & Institute for Biophysical and Clinical Research into Human, Manchester Metropolitan University, UK

26. Step variability in infants with down syndrome post-treadmill training

Jianhua Wu, Rosa, Angulo-Barroso & Dale Ulrich
Motor Development Lab. & Center for Motor Behavior in Down Syndrome, Division of Kinesiology, University of Michigan, USA
27. Acquisition of swimming behaviour in infants
Ernani Xavier Filho 1, 2 Inara Marques 1, 2 Edison de Jesus Manoel 2
1-State University of Londrina, Brasil
2-Study group on action development and motor intervention, University of São Paulo

28. “Mind-Motor Tuning”: Perception and Action Coupling During Difficult Reaching Conditions
J. Paul Boudreau
Department of Psychology, Ryerson University, Toronto Ontario, Canada

29. Daily practices, stimulation and infant motor development
Perrotti, A.C. & Manoel, E.J.,
Escola de Educação Física e Esporte, University of São Paulo, Brazil

30. Infants' Motor Development: Stability and Change
Eva Herrera-Gutiérrez
Departamento de Psicología Evolutiva y de la Educación, Universidad de Murcia, Spain

31. Aids for early walking: Do they really help?
Escudero, A. 1, Olmos, M. 1 & M. Ato 2
1. Departamento de Psicología Evolutiva y de la Educación, Universidad de Murcia, Spain
2. Departamento de Psicología Básica y Metodología. Universidad de Murcia, Spain

32. Early manual asymmetry in reaching-grasping behaviour elicited by tactile stimulation
Calvo-LLena, M.T. 1, Peyres-Egea, C. 1, Herrera-Gutiérrez, E. 1 and Marin-Martínez, F. 2
1. Departamento de Psicología Evolutiva y de la Educación, Universidad de Murcia, Spain
2. Departamento de Psicología Básica y Metodología. Universidad de Murcia, Spain

33. Coordination of sucking, swallowing, and breathing in healthy newborns
Audrey L.H. van der Meer
Department of Psychology, Norwegian University of Science and Technology, Norway

34. Task constraints on infant’s grasping patterns
Inara Marques 1, 2 & Edison de Jesus Manoel 2
1-State University of Londrina, Brasil
2-Study group on action development and motor intervention – University of São Paulo

Slots 34-40 Available for extra infancy posters.
B. Older Children Posters

41. Effects of the organismic and task constraints on the relationship of the components of fundamental patterns of throwing
*Luciano Basso*¹, *Veronica Miyasike da Silva*² & *Rodrigo Godin*
1. Motor Behaviour Laboratory – School of Physical Education & Sport, University of São Paulo, São Paulo, Brazil
2. Instituto de Ensino Superior Santanense

42. The standing long jump developmental sequence: A dynamic view
*Maria Teresa Cattuzzo*
University of Pernambuco, Brazil, LACOM, Laboratory of Motor Behavior, University of São Paulo, Brazil

43. Product and process in the standing long jump of children and adults
*Maria Teresa Cattuzzo*, *Cinthya Walter* & *Jane Aparecida Oliveira da Silva*
LACOM – Laboratory of Motor Behavior, University of São Paulo, Brazil

44. Integration of Fundamental Movement Patterns in Down Syndrome Individuals
*Roberito Gimenez* & *Patrícia Buttaro Farias*
Laboratory of Researches in Physical Education and Physiotherapy
University of City of São Paulo, São Paulo, Brazil

45. Performance of Down Syndrome Individuals in a Serial Task of Timing
*Roberito Gimenez*¹, *Daniel Biló Gonçalves*¹, *Luciano Basso*², *Ernani Xavier Filho*³
1. Laboratory of Researches in Physical Education and Physiotherapy, University of City of São Paulo, São Paulo, Brazil
2. University of São Paulo
3. University of Londrina

46. Age–related body sway and sensory and motor coupling adaptation in children
*D. Godoi* & *J.A. Barela.*
Laboratório para Estudos do Movimento (LEM), Departamento de Educação Física, IB, UNESP, Rio Claro, Brazil

47. Effect of the motor development level in change frequency of components changing according to task constrains
*Inara Marques*¹, *Luciano Basso*² & *Fabrizio Zandonadi Catenassi*¹
1. Study and research group on motor development and learning – State University of Londrina, Brasil
2. Laboratory of motor behavior – University of São Paulo, Brazil

48. Movement Coordination problems, social preferences and motivation among secondary students
*Luis Miguel Ruiz* & *Marta Gómez*
Universidad de Castilla La Mancha, Toledo, Spain
49. Diagnostic of TDC in children: A study about the checking list of the test MABAC south-east region of Brazil  
Silva, J.1, Dantas, L.2, Cattuzzo, M.T.2, Walter, C.2, Basso, L.2, Palermo, C.2 & Silva, C.3  
1. Universidade do Vale do Sapucaí, Brasil  
2. Universidade de São Paulo, Brasil  
3. Universidade de Manaus, Brasil

50. Effect of environmental factors and socio-economic status on the motor development of young children  
Hilde Van Waelvelde, Vicky Maes & Wim Peersman  
Physiotherapy Department, Arteveldehogeschool, Gent, Belgium

51. Balance training with visual feedback in children with hemiplegic cerebral palsy  
Annick Ledebt1, Jules Becher2, Geert J. P. Savaelsbergh1,3  
1. Institute for Fundamental and Clinical Human Movement Sciences, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands  
2. Department of Rehabilitation, Vrije Universiteit Medical Center, Amsterdam, The Netherlands  
3. Institute for Biophysical and Clinical Research into Human Movement, Manchester Metropolitan University, UK

52. Gender differences in the aquatic motor development in 6- to 7-year-old children  
Juan Antonio Moreno Murcia  
Departamento de Expresión Plástica, Musical y Dinámica. Universidad de Murcia, Spain.

53. The influence of the practice of soccer with students: an improvement of physical capacities  
Silva, Jane1, Silva, José Roberto1, Santos, Lexandro1, Costa, Ivone1 & Oliveira, Jorge Alberto2  
1. Universidade do Vale do Sapucaí, Brasil  
2. Escola de Educação física e esporte, Universidade de São Paulo, Brasil

54. Sensory contributions to postural control in children with DCD  
Frederik JA Deconinck1, Dirk De Clercq1, Rudy Van Coster2, Geert JP Savaelsbergh3,4 and Matthieu Lenoir1  
1. Department of Movement and Sports Sciences, Ghent University, Belgium  
2. Department of Pediatrics and Medical Genetics, Ghent University, Belgium  
3. Institute for Fundamental and Clinical Human Movement Sciences, Vrije Universiteit Amsterdam, the Netherlands  
4. Institute for Biophysical and Clinical Research into Human Movement, Manchester Metropolitan University, United Kingdom

Slots 54-60 Available for extra children posters
Session III . 15.00-16.30

Chair: Karen Adolph

15.00-15.30
Anat Scher & Dina Cohen
University of Haifa, Israel, Haifa, Israel
Moving after midnight: Crawling and nightwaking

15.30-16.00
Judith M. Gardner, Vicki Sudhalter, Bernard Z. Karmel, Elizabeth M. Lennon, and Robert L. Freedland
New York State Institute for Basic Research in Developmental Disabilities
Staten Island, New York, USA
Coregulation of affect, attention, and motor activity in high-risk-4-month-olds: Playing peek-a-boo

16.00-16.30
Carranza, J.A., Olmos, M., Calvo-LLena, M.T., Herrera-Gutiérrez, E. & Peyres-Egea, C.
Departamento de Psicología Evolutiva y de la Educación, Universidad de Murcia, Spain
Convergence of tactile-kinaesthetic and visuomotor measures in the early development of manual lateral asymmetry

16.30-17.00
Break: Coffee and tea are available

17.00-18.00 Keynote I

Chair: Geert Savelsbergh

Wolfgang Schöllhorn

Sport Wissenschaft, University of Münster, Germany.

"Should children learn from adults how to learn movements?"

18.00-18.15

Memorial Esther Thelen
Thursday 12th of May

08.30  Registration is open

08.00-09.00  Speakers can check out their Power Point presentation in the Auditorium

Session IV  09.15-10.45

Chair: Jane Clark

09.15-09.45  Blandine Bril
Groupe de Recherche Apprentissage et Contexte. Ecole des hautes Etudes en Sciences Sociales, Paris, France
Exploring the context of early motor development

09.45-10.15  Daniela Corbetta
Department of Health & Kinesiology, Purdue University West Lafayette, USA
Seeing and touching objects: The role of sensory-motor experience on the development of infant reaching

10.15-10.45  Beverly Ulrich\(^1\) and Vickie Moerchen\(^2\)
1.Division of Kinesiology, University of Michigan USA
2.Department of Physical Therapy & Rehabilitation Science, University of Maryland-Baltimore, USA
Infants with Spina Bifida: Body Weight Supported Treadmill Stepping over the First Postnatal Year

10.45-11.15  Break: Coffee and tea are available

Session V  11.15-12.45

Chair: Bennett Bertenthal

11.15-11.45  Rosa M. Angulo-Barroso, Dale A. Ulrich, & Chad W. Tiernan
Motor Development Lab. & Center for Motor Behavior in Down Syndrome, Division of Kinesiology, University of Michigan, USA
Treadmill stepping and motor activity in infants at risk for cerebral palsy
11.45-12.15
Karen E. Adolph
Department of Psychology, New York University, New York, USA
*Multiple learning mechanisms in the development of action*

12.15-12.45
Annick Ledebe⁴, Joost C. Rosier⁴, Geert J. P. Savelsbergh¹,²
1. Institute for Fundamental and Clinical Human Movement Sciences, Faculty of Human Sciences, Vrije Universiteit, Amsterdam, The Netherlands
2. Institute for Biophysical and Clinical Research into Human, Manchester Metropolitan University, UK
*The early development of walking with and without shoes*

13.00-15.00
Buffet lunch in combination with the posters session  (see poster titles on Wednesday)

15.30-16.30 Keynote II

**Chair: Geert Savelsbergh**

**Dilwyn Marple-Horvat**
Manchester Metropolitan University, UK

*The eyes drive performance: The importance of eye movements for functional mobility*

16.30-17.00 Break:  Coffee and tea are available

Session VI  
17.00-19.00

**Chair: Rosa Angulo-Barroso**

17.00-17.30
Sarah Berger
The College of Staten Island, The City University of New York
*Locomotor Perseveration*

17.30-18.00
Department of Kinesiology, University of Maryland, College Park, USA
*On the development of postural stability*
18.00-18.30
James C. (Cole) Galloway
Infant Motor Behavior Lab, Dept. of Physical Therapy, Biomechanics and Movement Sciences Program, University of Delaware
Adventures in training a biologically-based neural network to reach using infant data

18.30-19.00
Roger Russel
Feldenkrais-zentrum Heidelberg, Heidelberg Germany
In the development of thought, doing is prior to understanding: the practice and theory of the Feldenkrais Method

Friday 13th of May

08.00-09.00 Speakers can check out their Power Point presentation in the Auditorium

08.30 Registration is open

Session VII 09.15-10.45

Chair: Blandine Bril

09.15-09.45
Dorothy Fragaszy,
Department of Psychology, University of Georgia, Athens, USA
Dexterity across primates and its relation to tool use

09.45-10.15
Jeffrey J. Lockman,
Department of Psychology, Tulane University, New Orleans, USA
Perception-action foundations of object manipulation and tool use

10.15-10.45
Jacqueline Fagard
Laboratoire Cognition et Développement, CNRS, Institut de Psychologie, Boulogne-Billancourt Cedex, Paris, France
The development of manual specialization in infancy

10.45-11.15
Break: Coffee and tea are available
Session VII (continue) 11.15-12.15

Chair: Audrey van der Meer

11.15-11.45
Karl S. Rosengren
Department of Psychology, Department of Kinesiology, University of Illinois, Champaign, USA
*Grasping & Scale Errors: When Actions Don’t Match the Nature of the Tool*

11.45-12.15
Ad W. Smitsman & Ralf Cox
Behavioural Science Institute (BSI), Radboud University of Nijmegen, Nijmegen, the Netherlands
*Planning in action: A dynamic view on the decisions young children make in using a tool.*

12.30-13.30
Buffet lunch (no poster session!)

Session VIII  13.30 – 15.30

Chair: Marina Olmos

13.30-14.00
Audrey van der Meer
Department of Psychology, Norwegian University of Science and Technology, Norway
*The development of prospective control in infancy*

14.00-14.30
Karen Brakke¹, Dorothy M. Fragasy², Kathy Simpson², Erica Hoy² and Yung Chien²
1. Spelman College, Atlanta, GA, USA,
2. University of Georgia, Athens, USA
*Kinematic analysis of arm coordination in 12 – to 14 month-old children during a bimanual percussion task*

14.30-15.00
Ralf Cox & Ad W. Smitsman
Behavioural Science Institute (BSI), Radboud University Nijmegen, the Netherlands
*Planning in action: Dynamical field modeling of young children’s decision-making process and age changes that make planning more sophisticated*
15.00-15.30
Krisztina Zajdó
Division of Communication Disorders, University of Wyoming, Laramie, USA

The motor coordination of lip rounding with tongue and jaw position: Speech development from infancy through childhood

15.30-16.00
Break: Coffee and tea are available

16.00-17.00 Keynote III
Chair: Bennett Bertenthal

Scott Johnson
New York University, USA

"Mechanisms of Development of Object Knowledge"

18.00-18.10
Closing remarks
Jose Antonio Carranza, Marina Olmos and Geert Savelsbergh

18.10 – 18.30 Closure Ceremony
Chancellor of the University of Murcia. Excmo. Sr. D. José Ballesta Germán

21.30. Closure Dinner at the Cultural Casino (Address: Trapería, 31)

Important Note: All presented works could be chosen for publication in a special issue of Infant Behavior and Development as a full paper after being reviewed. Papers should be submitted after the conference. There is no need to send them before it.
SOCIAL PROGRAM

All events in the social program (except the Closure Dinner) are free and paid by different sponsors of the Conference.

Tuesday 10\textsuperscript{th} May

20.30. Opening Ceremony and Welcome Reception.
   To be held in the Salón de Plenos of the Town Hall of Murcia (called “Ayuntamiento”). Address: Glorieta de España, s/n.
   After the ceremony, a cocktail will be served.

Wednesday 11\textsuperscript{th} May

19.30. Guided sightseeing around Murcia city. Visiting all the main monuments of the city: Plaza de Santo Domingo, Cultural Casino, Cathedral, Plaza del Cardenal Belluga, Ayuntamiento, Museo Salzillo, etc.

   The visit will depart from the Main Door of the University.

Thursday 12\textsuperscript{th} May

20.00 Visit to the Campus de Espinardo of the University of Murcia with a Flamenco dance show at the Social Center of this Campus.
   The Flamenco show will be performed by the winner group of the National Festival of Flamenco Dance and Sing.
   After the performance, a cocktail will be offered.
   The bus to bring the congress participants to the Campus de Espinardo will depart opposite the Town Hall.

Friday 13\textsuperscript{th} May

21.30. Closure Dinner at the Cultural Casino (Address: Calle Trapería, 31) with ‘Tuna’ show.

   The Casino is the traditional social club in the Spanish cities. The building has an eclectic style with decorative elements from classical and modern trends where Arabic, Jewish and Christian cultures are presented. It is one of the main attractions of the city.
   The ‘Tuna’ is not a fish, but a traditional musicians group composed by university students. All universities and many faculties in Spain have their own ‘Tuna’. The ‘tunos’ (singers) are famous for the joy and irony of the lyrics of their songs. When somebody wants to conquer a girl, he sends the ‘Tuna’ to sing under her balcony.

Note: During the period of the Conference, Murcia will be celebrating the 3 cultures Festival where many cultural performances (music, dance, cinema, exhibitions, etc.) will
take place. It is a celebration of the Arabic, Jewish and Christian influences in the Spanish Culture. Most of the shows are free and held in the streets of the town.

For more information, look for “Festival Internacional. Murcia Tres Culturas” in the web page: http://www.fiestasdemurcia.com
CONGRESS OFFICE

Motor Development and Learning in Infancy
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Spain

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Web page: http://www.um.es/mdl2005

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Early Full Registration</th>
<th>Late Full Registration</th>
<th>Early Student Registration</th>
<th>Late Student Registration</th>
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<td>300€</td>
<td>400 €</td>
<td>150 €</td>
<td>250 €</td>
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Attendance to closure dinner: 60€

- The registration fee includes: admittance to all sessions, attendance to Welcome Reception, all scientific and poster sessions, one copy of the program, two coffees per day and lunch every day,
- VAT included

CANCELLATION POLICY:

* Delegates canceling before 15th February 2005 will receive a refund equivalent of 75% of the registration fee paid. Cancellations received after 15th February 2005 will only justify a 50% refund. There will be no refunds paid for cancellations received later than 30th April
TOURIST INFORMATION

Spain

A trip to Spain is a celebration of diversity, an opportunity to enjoy our excellent climate, excellent cuisine and joie de vivre. But also, it is a chance to discover our exceptional monumental heritage; to experience our unique, dazzling natural environment; to become acquainted with the customs of our people and to share with them their holiday celebrations and popular traditions.

Barcelona, Madrid, Córdoba, Sevilla, Bilbao, Murcia are examples of the harmonious coexistence of tradition and modernity in every Spanish city. Spain has the highest number of historic urban compounds that have been declared World Heritage by UNESCO. Each of these cities is part of the rich, diverse cultural legacy of humankind throughout history. We also count with 4,000 km of coastline where the visitor can enjoy the sun and sea in gorgeous settings: from vast beaches with golden sands to hidden coves flanked by cliffs. Thirteen National Parks are deeply committed to the conservation and enjoyment of rich, diverse ecosystems found nowhere in Europe. A visit to Spain is worthwhile!

Murcia

Murcia is situated in the Southeast of Spain, in the region of the same name. The latest population figures sum up a total of nearly 350,000 inhabitants. Murcia is situated 388 kms. from Madrid, 75 Kms. from Alicante and 220 kms. from Almeria. The city enjoys all-the-year round sunshine, meaning that the climate is dry and temperature has a yearly average of 17,5 Celsius degrees. It lies at a crossroads of routes and cultures, surrounded by a tapestry of greenery, a garland of flowers and fruit which have caused it to be known as the Market Garden of Europe.

The venue of the Conference will be the Facultad de Letras in the Campus de La Merced. This Campus is based in a convent built by the Brothers of Mercy in 1628 and it’s worth while popping into the cloister with its two levels of slender arches.

For more tourist information please visit http://www.murciaturistica.es and http://www.tourspain.es/
GENERAL INFORMATION

Language
The official language of the Congress is English. No simultaneous translation service will be available.

Congress venue
All sessions will be held in the Salón de Actos (Conference Room) of the Facultad de Letras (Faculty of Letters) in the Campus de La Merced of the University of Murcia, in the City Center.

Travel
Spain has an extensive transport network that connects every corner of the country. There are several options to get to Murcia. The city has its own airport (San Javier airport) with daily flights from Madrid and Barcelona. But the best option to get by plane is to go to Alicante Airport where you can get a coach or train to Murcia (please check timetables with the airport). Another option is to get to Madrid (Barajas Airport) and then get a train or coach to Murcia.

Bus Timetable Alicante Airport-Murcia

Company: ENATCAR

Monday to Friday:

From Alicante Airport to Murcia Bus Station. Departure times: 07,15 - 9,15 - 11,15 - 13,15 - 15,15 - 17,15 - 19,15 - 21,15

From Murcia Bus Station to Alicante Airport. Departure times: 07,00 -09,00 -11,00 - 13,00 -15,00 -17,00 - 19,00 - 21,00

Saturday and Sunday:

From Alicante Airport to Murcia Bus Station. Departure times:  9,15 - 11,15 - 13,15 - 15,15 - 17,15 -19,15 - 21,15

From Murcia Bus Station to Alicante Airport. Departure times: 09,00 -11,00 -13,00 - 15,00 -17,00 - 19,00 - 21,00

Murcia Bus Station Address: Calle Bolo s/n

One way ticket price: 3,96 EURO.

Insurance
The Organising Committee cannot be held responsible for any loss, accident, illness or damage occurring during the congress. Participants are recommended to take insurance for such risks.
Banking
The actual Spanish currency is the Euro. It is recommended that visitors arriving in the weekend should have sufficient euro currency. All banks are closed at weekends. However, exchange offices are open at the airport seven days a week and there are numerous cash dispensers throughout the city. Major credits cards are accepted at most locations.

Timetable
Please note that the Spanish timetable is a bit different from the European. Shops and banks usually open around 9.00 or 10.00 AM and close at 14.00 PM. Shops open again at 17.00 until 21.00 PM. This is because Spanish people have their main meal at lunch time and afterwards... we need a siesta!

Weather and dress
The medium temperature expected in Murcia in May would be around 25ºC. Occasionally, we could have rain showers. Informal dress in all occasions.

We recommend bringing sunglasses and sun protector (you can also buy them here) if you are not used to the sunshine. You might bring your swimming dress as well, just in case an opportunity to go to the beach turns up!
ORGANISED BY

UNIVERSIDAD DE MURCIA

RESEARCH GROUP ON DEVELOPMENTAL PSYCHOLOGY (GRUPO GIPSE)
DEPARTAMENTO DE PSICOLOGÍA EVOLUTIVA Y DE LA EDUCACIÓN

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AYUNTAMIENTO DE MURCIA

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ELSEVIER

Caja de Ahorros del Mediterráneo

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