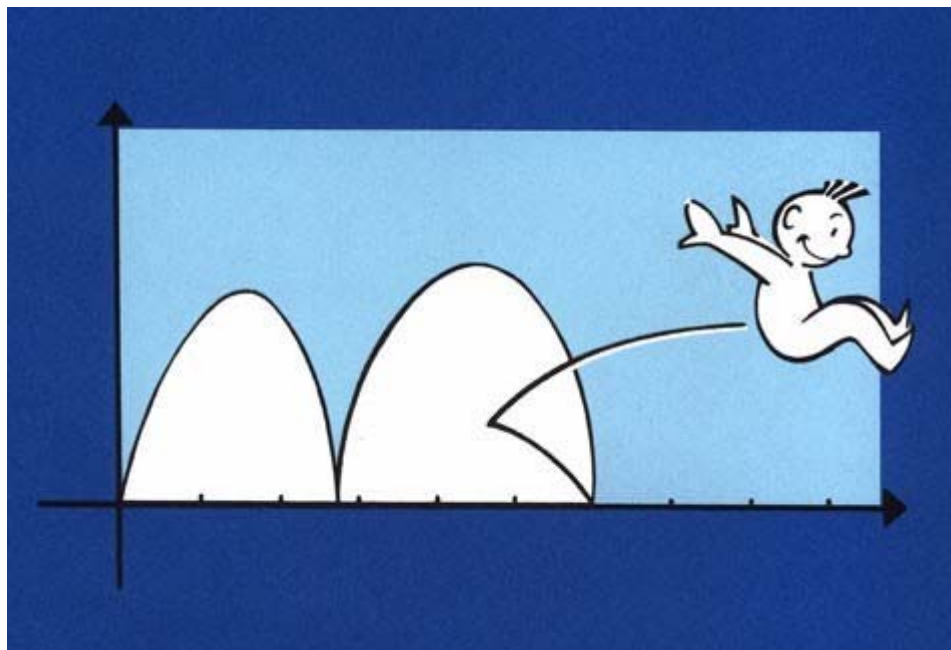


# INTERNACIONAL CONGRESS

## 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. Savelsbergh	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. M<sup>a</sup> 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. Ledebt

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

# SCIENTIFIC PROGRAM

## 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>

## 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. Karmel<sup>1,2</sup>, Judith M. Gardner<sup>1,2</sup>, Robert L. Freedland<sup>1,2</sup>, Inna Miroshnichenko<sup>1,2</sup>, Elaine Marchi<sup>1,2</sup>, Anthony Barone<sup>2</sup>, and Anantham Harin<sup>2</sup>

<sup>1</sup>New York State Institute for Basic research in Developmental Disabilities  
1050 Forest Hill Road, Staten Island, New York, USA

<sup>2</sup>St. 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 Jouen<sup>1</sup> and Michele Molina<sup>2</sup>

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<sup>1</sup>, Carolin Theuring<sup>2</sup>, & Karen Adolph<sup>3</sup>*

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. Fragasz<sup>1</sup>, Kathy Simpson<sup>2</sup>, and Sarah Cummins-Sebree<sup>3</sup>*

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. Gasson<sup>1</sup>, J.P. Piek<sup>1</sup>, N.C. Barrett<sup>1</sup> & D. Dewey<sup>2</sup>*

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, 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. Lobo<sup>1</sup>, James C. Galloway<sup>1</sup> & Geert J.P. Savelsbergh<sup>2</sup>*

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*<sup>1,2</sup> *Inara Marques*<sup>1,2</sup> *Edison de Jesus Manoel*<sup>2</sup>

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.*<sup>1</sup>, *Olmos, M.*<sup>1</sup> & *M. Ato*<sup>2</sup>

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.*<sup>1</sup>, *Peyres-Egea, C.*<sup>1</sup>, *Herrera-Gutiérrez, E.*<sup>1</sup> and *Marín-Martínez, F.*<sup>2</sup>

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*<sup>1,2</sup> & *Edison de Jesus Manoel*<sup>2</sup>

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<sup>1</sup>, Veronica Miyasike da Silva<sup>2</sup> & 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**

*Roberto Gimenez & Patrícia Buttaró 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**

*Roberto Gimenez<sup>1</sup>, Daniel Biló Gonçalves<sup>1</sup>, Luciano Basso<sup>2</sup>, Ernani Xavier Filho<sup>3</sup>*

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<sup>1</sup>, Luciano Basso<sup>2</sup> & Fabrizio Zandonadi Catenassi<sup>1</sup>*

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.<sup>1</sup>, Dantas, L.<sup>2</sup>, Cattuzzo, M.T.<sup>2</sup>, Walter, C.<sup>2</sup>, Basso, L.<sup>2</sup>, Palermo, C.<sup>2</sup> & Silva, C.<sup>3</sup>*

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 Waavelde, Vicky Maes & Wim Peersman*

Physiotherapy Department, Arteveldehogeschool, Gent, Belgium

51. Balance training with visual feedback in children with hemiplegic cerebral palsy

*Annick Ledebt<sup>1</sup>, Jules Becher<sup>2</sup>, Geert J. P. Savelsbergh<sup>1,3</sup>*

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, 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, Jane<sup>1</sup>, Silva, José Roberto<sup>1</sup>, Santos, Lexandro<sup>1</sup>, Costa, Ivone<sup>1</sup> & Oliveira, Jorge Alberto<sup>2</sup>*

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 Deconinck<sup>1</sup>, Dirk De Clercq<sup>1</sup>, Rudy Van Coster<sup>2</sup>, Geert JP Savelsbergh<sup>3,4</sup> and Matthieu Lenoir<sup>1</sup>*

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<sup>1</sup> and Vickie Moerchen<sup>2</sup>

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 Ledebt<sup>1</sup>, Joost C. Rosier<sup>1</sup>, Geert J. P. Savelsbergh<sup>1,2</sup>

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

Jason S. Metcalfe, L-C Chen, J.J. Jeka & J.E. Clark.

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 Brill**

09.15-09.45

Dorothy Frigaszy,

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 Brakke<sup>1</sup>, Dorothy M. Fragasy<sup>2</sup>, Kathy Simpson<sup>2</sup>, Erica Hoy<sup>2</sup> and Yung Chien<sup>2</sup>

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<sup>th</sup> 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<sup>th</sup> 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<sup>th</sup> 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<sup>th</sup> 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](http://www.fiestasdemurcia.com)

## CONGRESS OFFICE

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## REGISTRATION FEES

Early Full Registration (Paid before 15th March 2005)	Late Full Registration (After 15th March 2005)	Early Student Registration (Before 15th March 2005)	Late Student Registration (After 15th March 2005)
300€	400 €	150 €	250 €

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 15 th February 2005 will only justify a 50 % refund. There will be no refunds paid for cancellations received later than 30 th 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 habitants. Murcia is situated 388 kms. from Madrid, 75 Kms. from Alicante and 220 kms. from Almería. 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 25°C. 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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