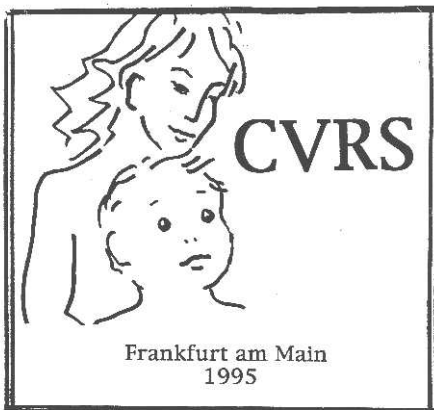


CHILD VISION

5th Meeting of the Child Vision Research Society

FRANKFURT

23-25 June 1995



Max-Planck-Institute for Brain Research

Deutschordenstr. 46, 60528 Frankfurt
Tel. +496996769277, FAX +496996769433

LOCATION

Address of the meeting: Johann-Wolfgang-Goethe University
Mertonstr. 17-21
(Senckenberganlage / Bockenheimer Warte)
60325 Frankfurt am Main, Germany
Registration: Foyer
Lectures: Aula & Lecture Hall H

FURTHER INFORMATION

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SPONSORED BY

Max-Planck-Institute for Brain Research, Frankfurt
Johann-Wolfgang-Goethe University, Frankfurt
Ministerium für Wissenschaft und Kultur, Hessen
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Deutsche Forschungsgemeinschaft
Max-Planck-Gesellschaft zur Förderung der Wissenschaften
TOMEY
Coca-Cola
Gaby Galeczki

GENERAL PROGRAMME

Friday 23 June

- 14.00 Opening of the meeting
14.15 Session 1 Opening lecture
16.00 Session 2 Psychophysics and neuropsychology
19.00 *Reception at the Literaturhaus*

Saturday 24 June

- 09.00 Session 3 Psychophysics and electrophysiology
11.00 Session 4 Low vision, visual stimulation
13.00 Poster session I
14.00 Session 5 Neural substrate, animal models
16.00 Session 6 Development of refraction
17.30 **Videorefraction** (see below)
19.30 *Conference Dinner at the Museum für Kunsthandwerk*

Sunday 25 June

- 09.00 Session 7 Clinical studies
11.00 Session 8 Visual assessment and screening
13.00 Poster session II
14.00 Session 9 Eye movements
16.00 Session 10 Cognitive development
17.00 Session 11 Closing session (Round Table)
20.00 *Informal gathering at the "Sachsenhäuser Warte"*

Monday 26 June

- 09.00 *Sightseeing tour (historical walk)*

Saturday 25 June

- 17.00 TOMEY A.G. ORGANIZES A WORKSHOP:

"VIVA: A MEANS OF INCORPORATING VIDEOREFRACTION INTO YOUR DAILY PRACTICE"

PROGRAMME

Friday 23 June

12.00 *Registration (lower foyer)*

Aula:

14.00 **Georg Philipp Telemann** (1681-1767): Triosonata in B-Flat major for Oboe, Violin and Basso continuo (Vivace - Siciliana - Allegro)

Interpreters: DANIEL SCHOCH (Oboe), KERSTIN PRAMSCHÜFER (Violin), SUSANNE MÜLLER-KIRSCH (Violoncello), CHRISTIAN RIDIL (Cembalo) (Members of the **Collegium Musicum Instrumentale**, Johann Wolfgang Goethe-University, Frankfurt)

14.10 Opening addresses:
HELGA DEPPE (Vicepresident of the Johann-Wolfgang-Goethe-University)
HEINZ WÄSSLE (Director of the Max-Planck-Institute for Brain Research)

SESSION 1: OPENING LECTURE

Chair: **Oliver Braddick** (London)

14.20 DAVIDA TELLER (Seattle)
"Development of colour vision in infants"

15.30 *Tea (upper foyer)*

SESSION 2: PSYCHOPHYSICS AND NEUROPSYCHOLOGY

Chair: **Lea Hyvärinen** (Espoo)

16.00 ADRIANA FIORENTINI (Pisa)
"Temporal properties of responses to luminance- and colour-contrast in infants"

16.30 JANETTE ATKINSON & EUGENIO MERCURI (London)
"Visual development in infants with neonatal focal brain lesions" (joint paper)

17.00 GIOVANNI CIONI, L. BARTALENA, E. BIAGGIONI, R. CANAPICCHI, BARBARA FAZZI, MICHELA POGGIANTI & JACKIE VAN HOF-VAN DUIN (Pisa & Rotterdam)
"Neonatal imaging, clinical and electrophysiological predictors of cerebral visual impairment"

17.30 OLIVER BRADDICK, JANETTE ATKINSON, SHIRLEY ANKER, FIONA MACPHERSON, LOUISE NOKES, SARAH RAE & DAVID EHRlich (London)
"Visual and visuo-spatial development in young children with Williams syndrome"

18.00 Business meeting

19.00 *Reception at the Literaturhaus*

Saturday 24 June

Lecture Hall H:

SESSION 3: PSYCHOPHYSICS AND ELECTROPHYSIOLOGY

Chair: **Anne Fulton** (Boston)

- 9.00 M. IRWIN, D. LUISA MAYER, MERRICK J. MOSELEY & ALISTAIR R. FIELDER (Birmingham & Boston)
"Behavioural testing of infant grating acuity using centrally presented stimuli"
- 9.20 PATRICIA APKARIAN & LO BOUR (Rotterdam & Amsterdam)
"Multiple maturational phases of state-defined luminance flash and flicker VEP's: Component identification and temporal fusion based on Laplacian and Fourier analysis"
- 9.40 JOHN WATTAM-BELL (London)
"Infants' discrimination of absolute direction of visual motion"
- 10.00 HENK SPEKREIJSE (Amsterdam)
"Interhemispheric differences during maturation of the visual (associated) cortical areas in humans"
- 10.30 *Coffee (upper foyer)*

SESSION 4: LOW VISION, VISUAL STIMULATION

Chair: **Janette Atkinson** (London)

- 11.00 FATIMA SHAWKAT, ANTHONY KRISS, DAVID TAYLOR, & CHRISTOPHER HARRIS (London)
"Eye-movement, electrophysiological and neuro-radiological studies in ocular motor apraxia" (Videofilms)
- 11.20 ERIK VANDENBUSSCHE, C. LAFOSSE, R. VANDERKELEN, B. WILLEMS & W. STEVENS (Leuven)
"Dorsal simultanagnosia and congenital low vision"
- 11.40 LEA HYVÄRINEN (Espoo)
"Visual stimulation in the early intervention and assessment of visually impaired infants"
- 12.30 *Lunch (lower foyer)*
- 13.00 Poster session I (odd numbers)

SESSION 5: NEURAL SUBSTRATE, ANIMAL MODELS

Chair: **Adriana Fiorentini** (Pisa)

- 14.00 ANITA HENDRICKSON (Seattle)
"A comparison of the expression of rod and cone opsins and synaptogenesis during the development of monkey retina"

- 14.30 LAURENCE GAREY (London)
"Development of neuronal specificity in human visual cortex"
- 15.00 RONALD BOOTHE (Atlanta)
"Consequences of very early visual deprivation"
- 15.30 *Tea (upper foyer)*

SESSION 6: DEVELOPMENT OF REFRACTION

Chair: **Mario Angi** (Padova)

- 16.00 JANE GWIAZDA (Boston)
"Development of refraction: A review"
- 16.30 FRANCOIS VITAL-DURAND & LOUIS AYZAC (Lyon)
"Refractive errors as a cause of strabismus and amblyopia"
- 17.00 ANNE FULTON & RONALD HANSEN (Boston)
"Refractive development in retinopathy of prematurity (ROP)"

Aula:

- 17.30 ALDO COCCHIGLIA (Padova) & KATHARINA T. JANSSEN (Münster)
"ViVA - A means of incorporating videorefraction into your daily practice"
(Lecture and hands-on training)
- 19.30 *Conference Dinner at the Museum für Kunsthandwerk*

Sunday 25 June

Lecture Hall H:

SESSION 7: CLINICAL STUDIES

Chair: **Jane Gwiazda** (Boston)

- 9.00 MARIO ANGI (Padova)
"Retinal image defocus and accommodative hysteresis in myopic children"
- 9.20 ELISABETH SCHULZ (Hamburg)
"Estimation of accommodation in early childhood"
- 9.35 ALINA ZUBCOV, E. KIRCHNER PAULI, S. PORSCH, N. STÄRK
& R. SCHLÖSSER (Frankfurt)
"Development of grating visual acuity, refraction and strabismus in
prematures"
- 9.50 WOLFGANG HAASE (Hamburg)
"Ophthalmoscopic examination of fixation pattern in infants (normals and
squinters)"
- 10.05 MERRICK J. MOSELEY, M. IRWIN, R. AULD, H.S. JONES, K.D.
COCKER & ALISTAIR R. FIELDER (Birmingham)
"Methodological and statistical issues in the evaluation of amblyopia therapy"

10.20 MAURITS V. JOOSSE, HUIBERT J. SIMONZ, E.M. VAN MINDERHOUT
& P.T.V.M. DE JONG (Rotterdam)
"Quantitative binocular visual fields in divergent strabismus"

10.30 *Coffee (upper foyer)*

SESSION 8: VISUAL ASSESSMENT AND SCREENING

Chair: **Francois Vital-Durand** (Lyon)

11.00 JANETTE ATKINSON, SHIRLEY ANKER, DAVID EHRLICH, OLIVER
BRADDICK, SARAH RAE, FRANK WEEKS & FIONA MACPHERSON
(London)
"The second Cambridge infant population screening programme using
videorefraction without cycloplegia"

11.20 SHIRLEY ANKER, JANETTE ATKINSON, OLIVER BRADDICK,
DAVID EHRLICH, JACQUELINE WADE & FRANK WEEKS (London)
"Screening for strabismus and refractive errors in the Cambridge Health
District, a comparison between cycloplegic and non-cycloplegic techniques:
First results"

11.30 DAVID EHRLICH, SHIRLEY ANKER, JANETTE ATKINSON, OLIVER
BRADDICK, FRANK WEEKS & JACQUELINE WADE (London)
"The accommodative response and cycloplegic refraction by VPR-1
of infant hyperopes"

11.40 MICHAEL GRÄF, RALPH BECKER & ALEXANDER NEFF (Giessen)
"Determination of visual acuity using Landolt optotypes and the LH-Test:
Comparative measurements"

11.50 SHAYNE BROWN, REBECCA DUYSHART & IAN STORY (Bundoora)
"The Melbourne initial screening test (MIST)"

12.10 PAULETTE SCHMIDT & RENEE FAULSTICK (Columbus, Ohio
& Camp Pendleton)
"The usefulness of stereoacuity for amblyopia screening in children"

12.30 *Lunch (lower foyer)*

13.00 Poster session II (even numbers)

SESSION 9: EYE MOVEMENTS

Chair: **Patricia Apkarian** (Rotterdam)

14.00 JACKIE VAN HOF-VAN DUIN, GIOVANNI CIONI, BARBARA FAZZI
& MICHELA POGGIANI (Rotterdam & Pisa)
"Monocular OKN asymmetries: Expectancies and findings, including
those in acallosal children"

14.30 JACQUES CHARLIER & CATHY BUQUET (Lille)
"Slow phase eye movements during visual tracking in newborn infants"

- 14.50 HENRIETTE BLOCH, ISABELLE CARCHON & FABIENNE BASSOT (Paris)
"Motor components of visual activity in pre- and full-term neonates"
- 15.10 MONICA BISCALDI, V. STUHR & BURKHART FISCHER (Freiburg)
"Saccade generation in dyslexic children and teenagers"
- 15.30 *Tea (upper foyer)*

SESSION 10: COGNITIVE DEVELOPMENT

Chair: **Jackie van Hof-van Duin** (Rotterdam)

- 16.00 AXEL PETZOLD & LINDSAY T. SHARPE (Freiburg)
"The development of colour memory in children"
- 16.20 RUXANDRA SIRETEANU, REGINA RETTENBACH & GOTTFRIED DILLER (Frankfurt & Friedberg)
"The role of hearing in early visual development: Visual search in hearing and deaf children and adolescents"
- 16.40 ANNEMARIE PELTZER-KARPF (Graz)
"The role of visual information in language development: Evidence from seeing and hearing, hearing impaired, and blind children"

Aula:

SESSION 11: CLOSING SESSION

Chair: **Oliver Braddick** (London)

- 17.00 **Round Table:** "Current state, future challenges: Closing remarks"
- Panel: MARIO ANGI, JANETTE ATKINSON, RONALD BOOTHE, OLIVER BRADDICK, GIOVANNI CIONI, ADRIANA FIORENTINI, LAURENCE GAREY, ANITA HENDRICKSON, DAVIDA TELLER, JACKIE VAN HOF-VAN DUIN, FRANCOIS VITAL-DURAND
- 18.30 End of conference
- 20.00 *Informal gathering at the "Sachsenhäuser Warte" (historical restaurant, with wine and beer garden)*

Monday 26 June

- 9.00 *Sightseeing tour (historical walk, including the Goethe-Haus)*

POSTER SESSIONS

1. MARIO ANGI, NELSON ENDARA LOPEZ & ENRICO MANTOVANI (Padova & Ibarra)
"Prevalence of amblyogenic defects in pre-school children born in the Veneto region (Italy) and in Ibarra (Ecuador)"
2. SHIRLEY ANKER, JANETTE ATKINSON, OLIVER BRADDICK, DAVID EHRlich, JACQUELINE WADE & FRANK WEEKS (London)
"Screening for strabismus and refractive errors in the Cambridge Health District, a comparison between cycloplegic and non-cycloplegic techniques"
3. ISABELLE CARCHON & FABIENNE BASSOT (Paris)
"Eye-head relations in full-term and pre-term infants in visual pursuit"
4. K.D. COCKER, ALISTAIR R. FIELDER & MERRICK J. MOSELEY (Birmingham)
"Rapid improvement of visual function in delayed visual maturation (DVM)"
5. C.R.A. VAN DIJK & H. VERBUNT-BRATTINGA (Grave)
"Visual assessment of multiply handicapped children in day-care centres"
6. MARJOLEIN DIK (Amsterdam)
"Visual stimulation results in children with low-level vision"
7. IRMGARD ENCKE & RUXANDRA SIRETEANU (Frankfurt)
"Do infants show a preference for the 'least salient' object in a visual scene?"
8. BARBARA FAZZI, MICHELA POGGIANTI, A. BOLDRINI, R. CANAPICCHI, JACKIE VAN HOF-VAN DUIN & GIOVANNI CIONI (Pisa & Rotterdam)
"Development of grating acuity up to 5 years in children with perinatal brain damage as detected by neuroimaging"
9. MARIA FRONIUS, RUXANDRA SIRETEANU & ALINA ZUBCOV (Frankfurt)
"Assessing spatial localization in children with strabismic amblyopia"
10. CHRIS HARRIS, FATIMA SHAWKAT, TONY KRISS, ISABELLE RUSSELL-EGGITT, DAVID TAYLOR (London)
"Eye movements in isolated delayed visual maturation"
11. MONIQUE HAERS, P. STIERS, B. VAN DEN HOUT, R. VANDERKELEN, L.S. DE VRIES, O. VAN NIEUWENHUIZEN & ERIK VANDENBUSSCHE (Leuven & Utrecht)
"L94, a set of tasks for screening visual perceptual functions in children with neonatally acquired brain lesions"
12. LEA HYVÄRINEN (Espoo)
"New diagnostic materials for visual assessment in children" (Demonstration)
13. LEA HYVÄRINEN (Espoo)
"Stimulation materials and creative playthings for visually handicapped children" (Demonstration)
14. S. KHETERPAL, H.S. JONES, R. AULD & MERRICK J. MOSELEY (Birmingham)
"Reliability of visual acuity measurements in children with reduced vision"
15. TONY KRISS & DOROTHY THOMPSON (London)
"Infantile osteopetrosis: The value of ERG and VEP recording"
16. D. LAWS & F. LAWS (Liverpool)
"Myopia and ROP therapy"

17. EUGENIO MERCURI, M. JONGMANS, S. HENDERSON, L. DE VRIES & L. DUBOWITZ (London & Utrecht)
"Visual and perceptuo-motor function at school age in prematurely born children"
18. BEATE NEU, RUXANDRA SIRETEANU, MARIA FRONTIUS & DAN H. CONSTANTINESCU (Frankfurt)
"Live vs. video observation in forced-choice preferential looking: A comparison of procedures"
19. MICHELA POGGIANTI, BARBARA FAZZI, B. BERTUCELLI, GIOVANNI CIONI, C. ROMANO, U. BOTTONE, JACKIE VAN HOF-VAN DUIN (Pisa & Rotterdam)
"Visual assessment in children with perinatal brain lesions at 5 years of age"
20. REGINA RETTENBACH, RUXANDRA SIRETEANU & GOTTFRIED DILLER (Frankfurt & Friedberg)
"The role of hearing in early visual development: Texture segmentation in hearing and deaf children"
21. SCANIA DE SCHOENEN (Marseille)
"Interhemispheric transfer of information: A developmental study"
22. PAULETTE SCHMIDT (Columbus, Ohio)
"Titmus Stereoacuity norms in children"
23. ELENA SERGIENKO (Moscow)
"Stereotypies in children with congenital cataracts"
24. FATIMA SHAWKAT, CHRISTOPHER HARRIS, DAVID TAYLOR, DOROTHY THOMPSON & ANTHONY KRISS (London)
"Differences in the OKN response between children with congenital profound and non-profound unilateral visual loss"
25. FRANCOIS VITAL-DURAND, P.J. BENSON & COLIN BLAKEMORE (Lyon & Oxford)
"New acuity cards (Bebe Vision Tropicque)" (Demonstration)
26. CRISTINA VLADUTIU (Cluj)
"Bebe-vision' - first steps in Romania"
27. JOHN WATTAM-BELL (London)
"Dmax for stereo and motion in infants and adults"
28. IVAN WOOD, DONALD O'MUTTI & KARLA ZADNIK (Manchester & Berkeley)
"Crystalline lens in infancy"

TRAVEL TO FRANKFURT

From the **airport** - by underground (S8) to the central station;

from the **central station** - by tram (16) to the Bockenheimer Warte.

Please notice that you need a valid ticket for the underground and/or the tram!

SOCIAL PROGRAMME

Literaturhaus: Bockenheimer Landstr. 102

Museum für Kunsthandwerk: Schaumainkai 15-17

Sachsenhäuser Warte: Darmstädter Landstr. 279