

The 46<sup>th</sup> Annual Meeting of the Academy of  
Aphasia, Turku, Finland 19<sup>th</sup> – 21<sup>st</sup> October 2008

Sunday 19<sup>th</sup> October

**12:30 – 14:30 Lunch & Registration**

**14:30 – 16:30 Symposium**

Magnetoencephalographic (MEG) investigations of language

*Chair: Riitta Salmelin*

1. Auditory cortical activation during word processing in SLI and dyslexia (Helenius, Parviainen, Paetau, & Salmelin)
2. Neural dynamics of reading morphologically complex words (Vartiainen, Aggujaro, Lehtonen, Hulten, Laine, & Salmelin)
3. An MEG investigation of neurophysiological changes following therapy for agrammatic aphasia (Faroqi-Shah)
4. Evidence for early morphological decomposition: Combining masked priming with MEG (Lehtonen, Monahan, & Poeppel)

**16:30 – 17:00 Coffee break**

**17:00 – 18:30 Poster Session 1**

*Alexia, agraphia & orthography*

5. Naming pseudo-characters by Cantonese dyslexic individuals with different reading abilities: Evidence for lexical-mediation hypothesis (Law & Wong)
6. Abstract letter identities: Evidence from synaesthesia (Jonas, Ward & Weekes)
7. The basal ganglia in processing of Chinese writing: Evidence from a PET-CT study in Wilson's disease (Liu)
8. Consonant/vowel preservation in dysgraphia: Explicit representation or orthotactics? (Goldberg, Buchwald & Rapp)
9. The deterioration of oral reading aloud beyond single word level in individuals with Alzheimer's disease: A preliminary descriptive report (Kong, Baker & Ryalls)
10. On-line sentence reading effects in normal elderly and persons with aphasia (McNeil, Sung, Pratt, Szuminsky, Kim, Ventura, Fossett & Doyle)
11. Two levels of treatment for phonological alexia: A case study (Baynes, Truong, Jonathan, Faris & Davis)
12. Semantic typicality effects in acquired dyslexia: Evidence of impaired lexical-semantic access in the visual modality (Riley & Thompson)
13. What makes reading difficult in transparent orthographies? Longer words are harder and are read using semantics (Davies, Cuetos & Rodriguez-Ferreiro)
14. Allographic agraphia for single letters (Menichelli, Zadini, Semenza)
15. Is there a contribution of impaired visuomotor control to aphasic reading disabilities? An eye movement study with six single cases (Schumacher, Radach, Ablinger & Huber)
16. Expanded speeded functor treatment for phonological alexia (Snider, Gefen, Lott & Friedman)

17. Factors influencing the occurrence of semantic errors in word and non-word reading in deep dyslexia (DeMarco, Kohen & Martin)
18. Neural response to intensive remediation in a case of acquired dysgraphia (Rapp)
19. An fMRI investigation of functional reorganization of orthographic processes subsequent to resection of the left mid-fusiform gyrus (Tsapkini & Rapp)

### ***Treatment protocols***

20. The effect of a communicative intervention: Evidence from client's self assessments (Rautakoski, Korpijaakko-Huuhka & Klippi)
21. Aphasia severity and health-related quality of life (McCann)
22. Sentactics ®: Computer-automated treatment of underlying forms (Choy, Thompson, Holland & Cole)
23. All things being equal, no advantage to errorless learning (Lacey, Lott, Carney, Snider & Friedman)
24. Effects of levodopa on explicit new word learning: Preliminary findings (Copland & Whiting)
25. Verbal learning in chronic aphasia: Factors affecting expressive learning of novel words (Martin, Bunta, Postman-Caucheteux & Gruberg)
26. Measuring group therapy effects on verbal production of Arabic speakers with aphasia (AlAsseri)

### ***Discourse***

27. Stroke stories: The role of direct speech in producing coherence (Ulatowska & Candia)

28. Oral discourse production by fluent aphasic and non-aphasic monolingual speakers of Finnish and Norwegian (Korpijaakko-Huuhka, Lind, Kristoffersen, Moen & Simonsen)
29. Interpersonal language use in aphasia: Potential implications for identity (Korpijaakko-Huuhka & Armstrong)
30. Detecting mild aphasia by retelling a story (Manninen)
31. Studying social agency in aphasia (Brizio, Giachero, Calati, Molo, Zettin, Danieli & Tirassa)
32. Word search in aphasic conversation (Laakso)
33. A discourse analysis study of Persian-speaking Alzheimer's patients (Golbaz)
34. Measuring discourse production in aphasia recovery: Language complexity and efficiency (Connor, Archer, Varma, Patti, Tucke & Fucetola)

**18:30 – 20:00 Platform session 1**

***Phonetics & phonology in aphasia: Treatment and modeling***

Chair: Lynn Maher

35. Phonological paraphasias in bilingual anomia (Ibarrola & Ezeizabarrena Segurota)
36. The influence of phonological complexity on speech production deficits: A constraint-based connectionist approach (Goldrick)
37. The effect of auditory and kinematic feedback on the treatment of two adults with aphasia and apraxia of speech (McNeil, Fossett, Katz, Garst, Carter, Szuminsky, Lim & Doyle)

**20: 00- Reception**

## Monday 20<sup>th</sup> October

### 8:30 – 10:00 Poster session 2

#### *Windows to functional brain activity: (f)MRI, MEG, EEG, ERP & NIRS*

38. The time course of segmental and metrical encoding in Chinese spoken production: An event-related potential study (Zhang & Weekes)
39. Long-term outcome of juvenile aphasia: A behavioral and fMRI study (Longoni, Bay, Schnitker & Huber)
40. Neural correlates of word learning and forgetting: An MEG study (Hulten, Vihla, Laine & Salmelin)
41. Stability of ERP patterns in aphasic patients with poor recovery in the post-acute stage (Laganaro & Schnider)
42. ERP correlates of verb processing: A comparison of motion and emotion verbs (Rodriguez-Ferreiro, Davies, Weekes & Cuetos)
43. Effects of noun type on grammatical judgment: Evidence from EEG (Mazzi, Megan & Weekes)
44. Age of acquisition effects on Chinese character recognition: An EEG study (Liu, Su & Weekes)
45. Neural correlates of word and pseudoword repetition (Bihler, Saur, Abel, Kummerer, Mader, Huber, Dittmann & Weiller)
46. Phonemic impairment in aphasic subjects is predicted by neural responses to vowel sounds (Schofield, Iverson, Kilner, Crinion, Friston, Price & Leff)

47. A structural imaging study of semantic and phonemic fluency in the damaged brain (Grogan, Crinion, Ali, Green & Price)
48. Therapy effects on maladaptive brain plasticity: A single case event related fMRI study (Marcotte, Martinez, Alvarez, Conde & Ansaldo)
49. Effects of education on hemispheric dynamics of semantic processing in the aging brain: A near-infrared spectroscopy (NIRS) study (Kahlaoui, Demers, Machado, Lesage, Ska & Joanne)
50. Effects of sentence frame on thematic role assignment: An fMRI investigation (Biun, Peelle, Grossman & Reilly)
- Grammatical impairments: Agrammatism and Broca's aphasia***
51. Real-time planning of adjuncts and arguments in agrammatism: Evidence from eye movements while speaking (Lee & Thompson)
52. The functional categories of the verbal complex in Greek agrammatism (Fyndanis, Varlokosta & Tsapkini)
53. From underuse to incorrect overuse of prepositions in the oral sentence production of a Broca's aphasic (Stark & Viola)
54. Honorific production of Korean-speaking agrammatics (Hyun, Obler & Lee)
55. Assessing morphological and phonological contributions to the inflectional deficit in agrammatism (Szupica, Obler & Martohardjono)
56. Comprehension and processing of long-distance dependencies in Broca's aphasics (Larrazabal)
57. The effect of syntactic and semantic argument structure in agrammatism (Kohen, Milsark, Grubert, Kalinyak-Fliszar & Martin)

58. Posterior perisylvian lesion volumes in agrammatism and associated sentence deficit patterns (Bonakdarpour, Lukic, Garibaldi, den Ouden, Fix & Thompson)

***Comprehension & Perception***

59. The role of verbal short-term memory (VSTM) in sentence comprehension: A repetitive transcranial magnetic stimulation (rTMS) (Lauro, Cecchetto, Cohen & Papagno)

60. Selective deficits in the comprehension of sentences with dependency relations caused by a glioma in the left dorsolateral frontal cortex (Kinno, Muragaki, Hori, Maruyama, Kawamura & Sakai)

61. The influence of accentuation in spoken discourse comprehension in Chinese: An ERP study (Li, Hagoort & Yang)

62. Are narrative shifts supramodal? Behavioral and fMRI data on narrative comprehension in different modalities (Klann, Schulte, Vaisanen, Longoni, Kircher, Springer & Huber)

63. Relations between STM deficits and executive function (Martin & Allen)

64. Effects of sonority markedness on the perception of onset clusters (Yarmolinskaya & Rapp)

65. Working memory and pronoun resolution in older adults and aphasic patients with STM deficits (Breining & Martin)

**10:00 – 10:30 Coffee break**

**10:30 – 12:30 Platform session 2**

***Alexia and agraphia***

Chair: Ana Inés Ansaldo

66. The neural correlates of the graphemic buffer (Miceli, Caltagirone, Capasso, Caramagno, Patria, Turrizian, Zampetti & Caramazza)
67. Underlying causes of letter perseveration errors in dysgraphia (Fischer-Baum & Rapp)
68. Dissociating reading and spelling: The effect of orthographic depth (Tsapkini, Mantziava, Siatra & Katsarou)
69. Cross-language treatment generalization in bilingual dysgraphia (Tainturier & Roberts)

### **12:30 – 14:30 Academy Luncheon**

Keynote Speaker Professor *Riitta Salmelin* (*Brain Research Unit, Low Temperature Laboratory at the Helsinki University of Technology, Espoo, Finland*): "Language function and dysfunction: an MEG perspective".

Student award presentation

### **14:30 – 16:30 Platform session 3**

#### ***Grammar and grammatical treatment in agrammatism***

Chair: Lise Menn

70. Artificial grammar learning in severe agrammatism (Zimmerer, Cowell & Varley)
71. Neural correlates of CATE: A multiple case study of treatment induced recovery of sentence processing and production in agrammatism (Thompson, den Ouden, Bonakdarpour, Fix, Garibaldi, Love & Parrish)
72. Garden-path recovery in a patient with an inhibition deficit (Vuong & Martin)

73. Binding and coreference in Catalan agrammatism (Gavarró)

**16:30 – 18:00 Poster session 3**

*Naming & lexical retrieval*

74. A paradoxical category specific deficit for naming manufactured artifacts in progressive nonfluent aphasia (Reilly, Peelle & Grossman)

75. Development of the Short-Form Philadelphia Naming Test (S-PNT) (Walker & Schwartz)

76. Phonological therapy for naming deficits in jargon aphasia with neologisms (Bose, Pietrangelo & Buchanan)

77. Interference turning into facilitation in aphasic naming with the Contextual Priming Technique: A single case study (Vasseur, Renvall, Martin & Laine)

78. Relationship between anomia treatment outcomes and executive functions (Yeung & Law)

79. Colour facilitates naming of common objects in healthy and aphasic subjects (Mohr & Kentridge)

80. Retrieval of nouns and verbs in aphasics: A tool for therapeutic decision making (Niranjan, Eswar & Kumar)

81. Factors involved in word retrieval (Gordon)

82. The semantic blocking effect in naming: A computational model of inhibition failure (Crowther, Martin & Biegler)

83. Application of errorless learning to anomia in semantic dementia (Jokel & Anderson)

84. Effect of Verb Network Strengthening Treatment (VNeST) on lexical retrieval in sentences in moderate to severe aphasia (Edmonds & Babb)

85. Confrontation naming in progressive, non-fluent aphasia (Bradley, Hutton, Vietch & Weekes)

86. Bilingual performance on the Object and Action Naming Battery: Preliminary normative data in Spanish and English (Edmonds & Quintero)

87. Naming therapy in semantic dementia (Koenig-Bruhin, Donati, Pihan & Studer-Eichenberger)

88. Bilingual deep dysphasia (Weekes)

***Language production: Phonology (segments & tones)***

89. Rising pitch processing in aphasic and non-aphasic Beijing (dialect of Chinese) speakers, in non-pathologically involved speakers of Nantong and Changsha (dialects of Chinese) and of speakers of Yugur (a non-tonemic Altaic language) (Liang)

90. Speech production in an adult with aphasia: An altered auditory feedback study (Balasubramanian & Max)

91. The effect of constraint induced language therapy on expressive speech in acute aphasia: A case study (Kirmess & Maher)

92. What is normal? An explorative study of language production in healthy subjects (Geisler, Stark, Kurka & Pons)

93. Speech production impairments in Broca's aphasia: A pervasive phonetic or phonological deficit (Hadden, Eithin & Bak)

***Lexico-syntactic processing***

94. Lexical characteristics of letter-guided fluency naming in Alzheimer's disease, chronic aphasia and healthy adults (Kaskie, Rogalski, Kabasakalian, Neils-Strungas, Kendall, Altmann & Reilly)

95. Impact of animacy and word order on cerebral processing of spoken sentences (Huber, Klann, Vohn & Longoni)
96. Age-related brain functional reorganization for language: The case of the metaphoric alternative meaning of words (Mejia-Constain, Monchi, Walter, Arsenault, Senhadji & Joanette)
97. Basic parameters of spontaneous language: Differentiation between aphasic and non-aphasic speakers (Bay, Grande, Hussmann, Christoph, Willmes, Piefke & Huber)
98. Processing of wh-questions in a case of posterior cortical atrophy (Salis)
99. On-line syntactic processing in patients with severe aphasia (Ankierstein & Varley).
100. Processing canonical and non-canonical sentences: Reaction times of young and older adults (Edwards & Salis)
101. Short-term memory demands in speech production: Evidence from picture description (Mortensen, Martin, Allen & Slevé)
102. Action-object dissociations in aphasia revisited (Yu, Lu, Arevalo, Bates & Dronkers)
103. The influence of aphasia on concrete and abstract noun processing (Martensson, Horne, Roll & Apt)
104. Argument structure deficits in aphasia: A new task and preliminary results (Barbieri, Luzzatti, Ghirardi & Basso)
105. Knowing where but not what: Impaired thematic roles and spatial language (Miozzo, Fischer-Baum & Postman)
106. Spared syntax and impaired spell-out: Prepositions in aphasia (Matzig & Druks)

**18:00 Academy Business Meeting**

## Tuesday 21<sup>st</sup> October

### 8:30 - 10:30 Platform session 4

#### *Imagining aphasia & the brain: fMRI imaging*

Chair: Matt Goldrick

107. The semantics of count and mass nouns: An fMRI study (El Yagoub, Mondini, Chiarelli, Venneri & Semenza)

108. Brain responses to intelligible speech within “Wernicke’s area” correlate with residual language function in aphasic patients: An fMRI investigation (Schofield, Crinion, Iverson, Friston, Price & Leff)

109. Functional neuroimaging and network-level abnormalities underlying Foreign Accent Syndrome: A structural and functional MRI investigation (Riley, Butman, Idsardi & Braun)

110. Perceiving and naming actions and objects: An fMRI study (Liljestrom, Tarkiainen, Parviainen, Kujala, Numminen, Hiltunen, Laine & Salmelin)

### 10:30 – 11:00 Coffee break

### 11:00 - 12:30 Poster session 4

#### *Right hemisphere function*

111. Language functions related to pragmatics in each hemisphere (Huang, Lu, Lin & Liao)

112. The neural substrates of speech perception in words and non-words: Evidence from normal and impaired listeners (Wolmetz, Rapp & Wilson)

113. Are there hemispheric differences in the false recognition of critical lures? (Shen, Venne, Kahlaoui & Caza)

***Morphology***

114. Mental representation and processing of Italian compounds (Marelli, Crepaldi & Luzzatti)

115. Novel compound production and comprehension in aphasia (Borgwaldt & Bose)

116. Dissociating stem and affix-based processing in Polish aphasia (Jelowicka, Bak, Seniow & Marslen-Wilson)

***Primary progressive aphasia, dementia, TBI & Parkinson's disease***

117. The contrast between category and letter fluency in Alzheimer's patients and TBI (Laiacona, Rosci, Saetti & Capitani)

118. Anomia treatment in primary progressive aphasia: A combined fMRI behavioral case study (Dressel, Huber, Frings, Kummerer, Saur, Mader, Hull, Weiller & Abel)

119. Object and action naming in semantic dementia (SD) and Alzheimer's disease (Druks & Robinson)

120. Effects of Parkinson's disease on social perception and interfacing (Pell, Monetta & McDonald)

121. Progression of symptoms in primary progressive aphasia (Grande)

122. Semantic dementia without impaired lexical decision with pseudohomophones in Spanish (Wilson, Martinez, Weekes & Burani)

123. Changes in communication due to TBI: The point of view of the patient and the close-other: A follow-up study (Raukola & Vartiainen)

124. Relation between verb/action processing and behavioural measures in patients with semantic dementia (Bak, Ramirez-Ruiz, Erzinclioglu & Hodges)
125. Language comprehension deficits can distinguish frontotemporal dementia/motor neuron disease (FTD-MND) from the behavioral variant of frontotemporal dementia (FTD-bv) (Carthery-Goulart & Bak)
126. Discourse informativeness in TBI adults without aphasic symptoms (Carlomagno, Vorano, Biasutti & Marini)
127. Action naming is impaired in Parkinson's disease patients (Cuetos, Rodriguez-Ferreiro, Menendez & Davies)
128. Neuropsychological correlates of fluency measures in older adults with cognitive complaints and amnesic MCI (Taler, Saykin, Wishart, Pisoni, Flashman, Rabin, Nutter-Upham & Pare)
129. Patterns of perseveration on the Action Verbal Fluency Task in Alzheimer's disease (Pekkala, Erkinguntti & Albert)
130. The neural correlates of Semantic Feature Analysis in Broca's aphasia: Discordant patterns according to the etiology of aphasia (Marcotte & Ansaldo)
131. Non-canonical argument realization in Alzheimer's disease (Manouilidou, de Almeida, Schwartz & Nair)
132. Accessing compounds in Alzheimer's disease and aphasia (Kehayia, Schwartz, Jarema, Azevedo, Nair, Bastianse & Wehrens)

***Miscellaneous***

133. How can destabilized birdsong inform us about language impairment in aphasia? (LaPointe, Johnson & Thompson)

134. Subcortical aphasia: A misnomer? Evidence from incidence and variability  
(Krishnan, Mercy, Selvakumar, Tiwari, Rajashekar, Rao & Kiran)
135. Neural and cognitive mechanisms underlying acquired amusia after stroke: A neuropsychological follow-up study (Särkämö, Tervaniemi & Laine)
136. Speech development in a non-verbal adolescent with autism (Pickett, O'Grady, Boner & Gordon)

**12:30 – 14:30 Lunch**

**14:30 – 16:30 Platform session 5**

*Modeling and treatment of word retrieval deficits*

Chair: Carol Leonard

137. The reverse of the concreteness effect: Evidence for a lexical access impairment  
(Mattioli)
138. Brain activations of aphasic naming errors (Abel, Dressel, Schnitker, Saur, Weiller & Huber)
139. Contextual priming revisited: Effects of a technique to maximize access to and from semantics (Fink, Martin & Berkowitz)
140. Reversal of the superordinate superiority effect in the comprehension of aphasic stroke patients (Crutch & Warrington)

**16:30 Close of conference**