



**A - N - T**

# 19<sup>th</sup> Neurometing Bourgogne 2010

*Beaune*

**20 - 23 January 2010**

## **Program**

**Scientific Committee:**

*Prof. A.C. van Huffelen  
Dr. J.P. Lefaucheur  
Dr. G. Otte*

**Congress secretariat:**

**Advanced Neuro Technology  
ANT B.V.**  
Colosseum 22  
7521 PT - Enschede  
The Netherlands  
Tel. + 31 53 436 51 75  
Fax + 31 53 430 37 95

e-mail: [neurometing@ant-neuro.com](mailto:neurometing@ant-neuro.com)  
internet: <http://www.ant-neuro.com>

**Coordination:**

*Jacques Van Coppenolle*  
Rue Chapelle Stevenaert 148  
B – 1370 Jodoigne

Tel france: 04 93 49 11 77  
Mobil: +32 496 21 99 02

e-mail: [ant-neuro@neuf.fr](mailto:ant-neuro@neuf.fr)

**ANT organized meeting in collaboration with:**

**micromed**

<http://www.micromed.eu>

**Accreditation requested**

## Overview of Plenary and Parallel Sessions

<b>Wednesday evening January 20</b>	<i>Plenary</i> 18h00-20h00	Session "Camille Claudel: lumière, obscurité, cristallisation"	
<b>Thursday January 21</b>	<i>Plenary</i> 8h45-17h00	Pre-Session "Sleep" Sessions "TMS and Neuronavigation"	
<b>Friday morning January 22</b>		<b>Lecture sessions</b>	<b>Hands-on sessions</b>
	<i>In parallel</i> 8h15-12h40	"Psychiatry"  "Neurology"	Neurology (Practical session)  Workshop "Advanced EEG/MEG analysis with ASA"
<b>Friday afternoon January 22</b>	<i>Plenary</i> 14h00-14h40	Continued "Neurology"	
		<b>Lecture sessions</b>	<b>Hands-on sessions</b>
	<i>In parallel</i> 14h40-17h30		"TMS Navigation and Robotized TMS"
<b>Saturday morning January 23</b>		<b>Lecture sessions</b>	<b>Hands-on sessions</b>
	<i>In parallel</i> 8h45-12h30	"Neuroscience"	

**Note: The rooms where the sessions are held will be indicated at the start of the meeting**

## Wednesday January 20<sup>th</sup>



16h30

Arrival and Registration

**74 route de Pommard  
F-21200 BEAUNE (France)  
Tél. : +33 (0)3 80 26 22 17  
Fax. : +33 (0)3 80 26 22 18  
[www.le-panorama.com](http://www.le-panorama.com)**

18h00

### Special Guest



Camille Claudel

*Camille Claudel: Lumière, Obscurité, Cristallisation.*

Présentation par le Docteur Didi Roy - CHS La Chartreuse - Dijon

Suivi par l'écrivain Françoise Rey qui nous lira une nouvelle intitulée.  
*La Valse Triste (Camille Claudel)*



Françoise Rey

<http://auteurs.arald.org/biogr/Rey1951.html>

20h00

Reception and Welcome party

# Thursday January 21<sup>th</sup>

## Sessions "Sleep"

Chairman: Dr.

- 8h30 – 8h50 La SEEG, une fenêtre sur la dynamique de l'endormissement  
*Marc Rey (H. La Timone, Centre du Sommeil AP-HM, Marseille, France)*
- 8h50 – 9h10 Behavioural, cortical and autonomic responses to nociceptive stimuli during human sleep  
*Hélène Bastuji et al (INSERM-Institut national de la santé et de la recherche médicale, Lyon, France)*
- 9h10 – 9h30 VISUO PERCEPTIVE DYSFUNCTION ND REM BEHAVIOR DISORDER  
*Christelle Monaca (Unité Sommeil du CHU de Lille, France)*

## Sessions "TMS and Neuronavigation"

Chairman : Dr. Jean-Pascal Lefaucheur

- 9h30 – 9h50 The Impact of HF-rTMS Treatment on 5-HTT2A receptors in Medication-resistant Unipolar Depression  
*Chris Baeken (Psychiatry, University Hospital Brussels, Belgium)*
- 9h50 – 10h10 rTMS in Depression: The value of EEG in rTMS treatment  
*Martijn Arns (Brainclinics, Nijmegen,NL)*
- 10h10 – 10h30 The intra- and inter-operator variability of MEP latency with TMS  
*Maurits Hoonhorst (Neuro rehab dept., Revalidation center Vogellanden, Zwolle, NL)*
- 10h30 – 11h00 Break**
- 11h00 – 11h20 Forse-Torque-controlled robotized TMS  
*Lars Richter (Institute Robotics and Cognitive Systems, Universitat Lübeck, Germany)*
- 11h20 – 11h40 TMS EMG motor mapping  
*Lamija Pasalic Ing. ( ANT Berlin)*
- 11h40 – 12h00 (EMG)Signals in Navigated Brain Stimulation - Reliability and Precision  
*Sein Schmidt (Vision & Motor Systems Group, Dept. of Neurology, Charité, Berlin, DE)*
- 12h00 – 14h00 Lunch**
- 14h00 – 14h20 Safety and application guidelines for the use of TMS from The Safety of TMS Consensus Group.  
*Jean-Pascal Lefaucheur (Dept. of Radiology, Université Paris XII, Créteil, France)*
- 14h20 – 14h40 The influences of HF-rTMS on emotional processing in healthy females  
*Chris Baeken (UZ Brussels, Department of Psychiatry, Brussels, Belgium)*
- 14h40 – 15h00 TMS of early visual cortex reveals top-down contributions to conscious vision  
*Dr. Jacob Jolij (Division of Experimental Psychology, University of Groningen, NL)*
- 15h00 – 15h20 Break**
- 15h20 – 15h40 Figure-ground signals in early and object specific visual areas: Exploring visual networks by combining TMS and EEG  
*Martijn Wokke (University of Amsterdam, Psychology department, Amsterdam, NL)*
- 15h40 – 16h00 Finding the Needle in the Haystack. Using EEG-Triggered TMS to study Cortical Excitability  
*Thomas Hartman (OBOB-Lab, Univ. of Konstanz, Dept. of Psychology, Konstanz DE)*
- 16h00 – 16h20 Influencing the contents of the (visual) mind with transcranial magnetic stimulation  
*Ilja G. Sligte (Department of Psychology, University of Amsterdam, NL)*
- 16h20 – 16h40 Review of the effects of rTMS on experimental pain in healthy subjects.  
*Veit Mylius (Department of Neurology, Philipps University of Marburg, Germany)*
- 16h40 – 17h00 Combined EEG-TMS in Epilepsy  
*Michel JAM van Putten (Professor of Clinical Neurophysiology, Medisch Spectrum Twente & University of Twente, The Netherlands)*

## Friday morning January 22<sup>th</sup>

### Sessions "Psychiatry"

**Chairman: Dr. G. Otte**

- 8h15 – 8h35 Two stimulations are better than one? Evidence from a cross-modal oddball design.  
*Salvatore Campanella (CHU Brugmann, Bruxelles, Belgium)*
- 8h35 – 9h55 Clinical use of ERP's' in schizophrenia.  
*Geert De Bruecker (Psy. Centrum Zoete Nood Gods, Lede, Belgium)*
- 9h55 – 9h15 The rules of Luck  
*Georges Otte (MTD/NFL P.C. Dr. Guislain, Gent, Belgium)*
- 9h15 – 9h35 ERP's in Anxious-depressive disorders  
*Michel Hansenne (University of Liège, Department of Cognitive Sciences, Belgium)*
- 9h35 – 10h00 **Break**

### Sessions "Neurology"

**Chairman: Prof. Guy Chéron**

#### Session 1: swLORETA

- 10h00 – 10h20 swLORETA: THEORETICALS ASPECTS  
*Ernesto Palmero (ANT, Berlin, Germany.)*
- 10h20 – 10h40 Localization of the P300 cortical generators with swLORETA  
*Bocquillon P, Palmero E, betrouni N, bourriez JL, derambure P, dujardin K( CHU Lille, Lille France)*
- 10h40 – 11h00 Source localization of ictal epileptic activity with ECD, MUSIC, LORETA and sLORETA  
*Laurent Koessler (Service de Neurologie, CHU de Nancy)*
- 11h00 – 11h20 A study of the mirror neurons systems with swLORETA  
*Bilbaut N, Bocquillon P, Palmero E, Bourriez JL, Derambure P, SZURHAJ W ( CHU Lille, Lille, France)*
- 11h20 – 11h40 The frontal N30 SEP component: a window on sensori-motor oscillations"  
*Guy Chéron, A.M. Cebolla (Institut des Sciences de la Motricité, ULB ,Brussels, Be)*

**Chairman: Prof. Alexander Van Huffelen**

#### Session 2: Neurology

- 11h40 – 12h00 Is the frequency-sweep elicited MMN triggered by a comparison process in auditory sensory memory or by the triggering of specific neurons acting as feature detectors?  
*C. Colin & P Deltenre (CHU Brugmann, Bruxelles, Belgium)*
- 12h00 – 12h20 Speech-evoked Auditory Brainstem Responses: a new promising tool for the study of the neural encoding of speech and of speech-related disorders.  
*P. Deltenre, I. Hoonhorst & C. Colin (CHU Brugmann, Bruxelles, Belgium)*

12h20 – 14h00

**Lunch**

## Friday afternoon January 22<sup>th</sup>

**Chairman: Prof. Alexander Van Huffelen**

### Session 2: Neurology continued

- 14h00 – 14h20    **Single trial analysis of auditory Mismatch Negativity**  
*Norma Castañeda-Villa (Univ. Medical Center , Neurology dept, Groningen, NL)*
- 14h20 – 14h40    **The European NEMO project: continuous EEG-monitoring during treatment of neonatal seizures.**  
*Alexander Van Huffelen (Dept. of Clinical Neurophysio., UMC, Utrecht, NL)*

### Session 3: Epilepsy

- 14h40 – 15h00    **Improving sensitivity of EEG-fMRI analysis in epilepsy.**  
*Petra van Houdt (Epilepsy Centre Kempehaeghe, Heeze, The Netherlands)*
- 15h00 – 15h20    **New developments in coregistered EEG/fMRI**  
*Jan C. de Munck (Dept. Physics and Medical Technology, VU medical, Amsterdam)*
- 15h20 – 15h40    **Corticothalamic activation, EEG-fMRI and MEG study.**  
*Pauly Ossenblok (Epilepsy Centre Kempehaeghe, Heeze, The Netherlands)*
- 15h40 – 16h00    *Break***
- 16h00 – 16h20    **Clinical application of three MEG source localization methods: validation by intracranial measurements in epilepsy patients**  
*Geertjan Huiskamp (Department of Clinical Neurophysiology, UMC, Utrecht, NL)*
- 16h20 – 16h40    **Music representation in the brain**  
*Cyrille Ferrier (Department of Clinical Neurophysiology, UMC, Utrecht, NL)*
- 16h40 – 17h00    **Robust characterization of the ictal onset zone in ECoG data**  
*Karin de Gooijer (Department of Clinical Neurophysiology, UMC, Utrecht, NL)*
- 17h00 – 17h20    **Intracranial EEG mapping in the 3rd domaine**  
*Michael Funke (Magnetic Source Imaging Program, Univ. of Utah, Dept of Neurology, Salt Lake City, USA)*
- 17h20 – 17h40    **Cognitive Local field Potential recording in Gilles de la Tourette Syndrome and Obsessive compulsive Disorders.**  
*LJ Bour (Department of Neurology/Clinical Neurophysiology, Academic Medical Centre, University of Amsterdam, The Netherlands)*
- 17h40 – 18h00    **Multivariate EEG synchronization studies in neurology**  
*MG Knyazeva (S. de neuropsychologie et de neuroréhabilitation, H.Nestlé CHUV,CH)*

**Friday January 22<sup>th</sup>**

## **Parallel Hands-on Session "Neurology"**

Micromed Team

### **Session: Sleep**

- 8h30 – 10h00**
- **Sleep Analysis System: Hands On**
  - **General questions and applications**

## **TMS and Neuronavigation Instrumentation**

By Lamija Pasalic (ANT) and Frank Zanow (ANT)

- 10h00 – 11h00**     **TMS Neuronavigation Step by Step: Principles, Technology, and live Demonstration**  
*Frank Zanow (ANT Enschede, The Netherlands)*
- 11h00 – 12h00**     **EMG motor mapping demonstration**  
*Lamija Pasalic (ANT Berlin, Germany)*

During all three days of the meeting the Robotized TMS system is available for demonstration. In case you wish to see the system in action please consult with the organization.

## **Parallel Workshop "Advanced EEG/MEG analysis in ASA"**

By Ruud Kalis (ANT) and Frank Zanow (ANT)

- 14h00 – 17h00**     **Program will be announced later**

# Saturday morning January 23<sup>th</sup>

## Sessions "Neuroscience"

8h45 – 9h00

Introduction of the day by Maarten van de Velde

### Chairman: Maarten van de Velde

09h00 – 09h20 **Visual ERPs in Sternberg paradigm**  
*Juhani V. Partane (Dept of Clinical Neurophysiology, Uni. Jorvi Hospital of Helsinki)*

09h20 – 09h40 **Habituation of auditory N100 response in MCI**  
*Miia Pitkonen (Dept of Clinical Neurophysiology, Uni. Jorvi Hospital of Helsinki)*

09h40 – 10h00 **Exercise and the brain**  
*Vera Bruemmer (Institute for Movement and Neurosciences, Institute of Psychology, German Sport University, Cologne, Germany)*

10h00 – 10h20 **Non-invasive white matter fibre tracking - techniques and applications**  
*Thomas Knoesche (Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany)*

*10h20 – 10h40*

*Break*

10h40 – 11h00 **Dissociable Brain Mechanisms underlying the Conscious and Unconscious Control of Behavior**  
*Simon van Gaal (Cognitive Neuroscience Group, University of Amsterdam, Amsterdam)*

11h00 – 11h20 **Detecting visual gist and object structure using the statistical structure of natural scenes (Scholte HS, Gebreab S, Smeulders AWM & Lamme VAF)**  
*Steven Scholte, ( Cognitive Neuroscience Group, Dept of Psychology, Uni. of Amsterdam)*

11h20 – 11h40

11h40 – 14h30

Hands-on and discussion

*12h30*

*Lunch Buffet*

*14h30*

*Adjourn*

**General information:**    Symposium venue :

**Official Languages:**

English/French  
English is preferred

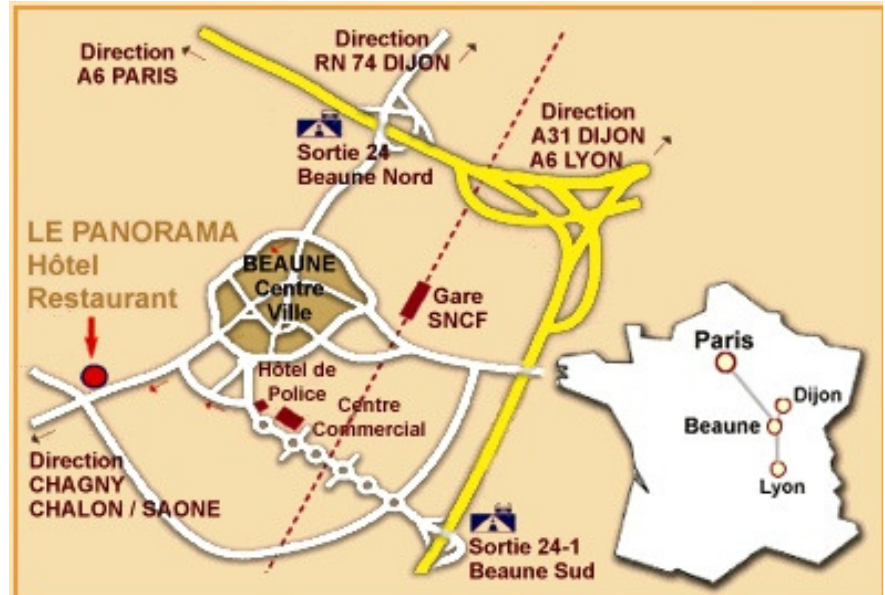
**Accreditation requested.  
Please register for the meeting  
using one of the registration  
forms and indicate which  
hands-on session you would  
like to attend**



**74 route de Pommard  
F-21200 BEAUNE  
France**

Tél. : +33 (0)3 80 26 22 17  
Fax. : +33 (0)3 80 26 22 18  
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**Directions:**



**We look forward to seeing you at this meeting!**



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