

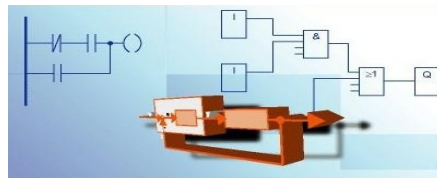


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## ANT ASA - Workshop

In collaboration with



**Dept. Electrical Energy, Systems and Automation**  
**Prof. Luc Boullart**  
**RUG**  
**EESA**



**Prof. P. Santens**  
**UZ Gent, dept. Neurology**



**Dr. Georges Otte,**  
**P.C. Dr. Guislain**

May 30, 2008



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*Workshop program - Friday, May 30*

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**08:30 Welcome / Opening**

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**09:00 Introduction to ASA - Lab**

Short introduction into EEG/ERP recording and analysis with ASA-Lab.

**09:30 Live data acquisition: ERP hardware, caps, recording & stimulation**

An ERP paradigm will be used to demonstrate some features of the ASA-Lab system.

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**10:45 Coffee break**

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**11:00 From the scalp to the brain: Fast and accurate signal processing in time and frequency domain, artifact correction and time-frequency decomposition applying wavelets**

The ASA-Lab signal processing tools will be discussed in more detail, also focusing on multi-subject analysis. A recent addition to ASA-Lab is the “ASA Experiment Manager”, which allows for easy and intuitive organizing and processing of group data. In addition, the new ASA tools for ICA-based eye blink correction, frequency analysis, and wavelets will be presented.

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**13:30 Lunch break**

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**14:30 Source analysis:**

Anatomical Localization of ERP data using different source reconstruction methods (e.g. dipole, LORETA, swLORETA)

**16:00 Special Applications:**

- 1) Neurofeedback and BCI
- 2) Combining ASA-Lab with the Cognitrace system

**18:00 Summary and discussion**



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## Directions

Universiteit Gent IR08, Technologiepark 914, B-9052 Zwijnaarde, Belgium

### By car:

- Coming from the center of Ghent:
  - At the roundabout 'Sterre', take the direction 'Oudenaarde'. On the next big roundabout you take the exit for the Technologiepark.
  - In the Technologiepark you follow the sign post '913 Regeltechniek': at the roundabout, go straight ahead and take the first road on the left side.
- Coming from Brussels and Ostend (E40)
  - The exits at Zwijnaarde (exit 15) are closed.
  - Take exit 14 - R4/Expo. Take exit R4 and follow direction Oudenaarde. Take exit 'Oudenaarde' and turn right. Follow the big roundabout till the exit for the Technologiepark.
  - In the Technologiepark you follow the sign post '913 Regeltechniek'.
  - When returning, the approach E40 direction Brussels can be accessed. The approach direction Ostend is closed.
- Coming from Antwerp and Kortrijk (E17):
  - Take exit 8 - Zevegem. On the N60 you take direction Ghent. At the big roundabout you take the exit for the Technologiepark.
  - In the Technologiepark you follow the sign post '913 Regeltechniek': at the roundabout, go straight ahead and take the first road on the left side.



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## Maps





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### **Public transport**

- By train: Gent St-Pieters and then by bus in the direction of Zwijnaarde, Oudenaarde
- By bus: De Lijn no. 70/71/72

When you are in front of the building:

- The door opens automatically from 8u30 until 12u30 and from 13u00 until 17u00.
- Outside the business hours, you can use the orange telephone to call the person you have an appointment with.
- The secretariat is on the first floor.

Please note that the maps shown above are not yet completely up-to-date: the Grote Steenweg Noord - or N60 - is changed into a long roundabout at the entrance to the Technologiepark.

[http://www.autoctrl.ugent.be/index\\_eng.php?links=no](http://www.autoctrl.ugent.be/index_eng.php?links=no)