



European Research Council
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IV. DEMOVE SYMPOSIUM
TEN2015
11TH -12TH JUNE, GÖTTINGEN



THURSDAY, 11/June/2015

VENUE: Psych HS MED 18, Von-Siebold-Str. 5, 37075 Göttingen

8:30 – 12:20	REGISTRATION
9:00 – 9:10	INTRODUCTION - Dario Farina (Georg August University)
	ETHICAL IMPLICATIONS OF NEUROTECHNOLOGY
9:10 – 9:40	Jochem Rieger (Carl-von-Ossietzky University, Germany) “Brain Computer Interfacing in the action perception loop and ethical considerations ” <i>10 minutes Discussion</i>
9:50 – 10:20	Cornelius Frömmel (Georg-August-University, Germany) “Ethical engineering practice at the interface between medicine and technics – what have students to learn – what can we teach?” <i>10 minutes Discussion</i>
10:30 – 11:00	Coffee break
	INTERFACING
11:00 – 11:30	Alexander Gail (Georg-August-University, Germany) “Chronic implant technology for myo- and corticoelectric recordings in primates” <i>10 minutes Discussion</i>
11:40 – 12:10	Frank Braatz (Georg-August-University, UMG, Germany) “TBD*” <i>10 minutes Discussion</i>

*: This is the temporary program. The last version of the program will be announced as soon as the missing speakers and the titles are completed.



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12:20 – 13:30	Lunch Break
13:30 – 14:00	Milos Nesladek (Hasselt University, Belgium) “Diamond for bioelectronic interfacing and sensing” <i>10 minutes Discussion</i>
14:10 – 14:40	Micha E. Spira (The Hebrew University of Jerusalem, Israel) "Changing gears, from extracellular field potential recordings to long term, multisite, noninvasive, In-Cell recordings and stimulation by extracellular multi electrode array" <i>10 minutes Discussion</i>
14:50 – 15:20	Xavier Navarro (University of Barcelona, Spain) "Neural interfaces for the control of neuroprosthetic devices" <i>10 minutes Discussion</i>
15:30 – 16:00	Coffee break
	DEMOVE SPECIAL SESSION
16:00 – 16:40	Dario Farina (Georg-August-University, UMG, Germany) “The DEMOVE project”
16:40 -18:00	Posters on the DEMOVE project All DEMOVE Fellows
20:00 -	SOCIAL GATHERING!

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FRIDAY, 12/June/2015

VENUE: Psych HS MED 18, Von-Siebold-Str. 5, 37075 Göttingen

NEUROCOMPUTING AND NEURAL SIGNAL PROCESSING

8:30 – 9:00

Eric Le Carpentier (Ecole Centrale de Nantes, France)

“Online decoding of intramuscular EMG”

10 minutes Discussion

9:10 – 9:40

Jose C. Principe (University of Florida, USA)

“Spike Timing Signal Processing”

10 minutes Discussion

9:50 – 10:20

Hansjörg Scherberger (German Primate Center, Germany)

"Grasp predictions from motor, premotor, and parietal population signals"

10 minutes Discussion

10:30 – 10:50

Coffee Break

CLINICAL - I (BIONIC RECONSTRUCTION)

10:50 – 11:20

Oskar C. Aszmann (Medical University of Vienna, Austria)

“TBD*”

10 minutes Discussion

11:30 – 12:00

Todd A. Kuiken (Northwestern University, USA)

“Rebuilding amputees for better interfacing with prosthetic limbs”

10 minutes Discussion

12:10 – 12:40

Gunther Felmerer (Georg-August-University, UMG, Germany)

“Targeted Muscle Reinnervation in Goettingen: First experience and local setting”

10 minutes Discussion

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12:50 – 13:00	FAST FORWARD POSTER PRESENTATIONS
13:00 – 14:00	POSTER SESSION
13:00 - 14:00	Lunch Break
	CLINICAL - II (NEUROLOGICAL REHABILITATION)
14:00 – 14:30	Mitsuhiro Hayashibe (LIRMM, France) “Personalized Neuroprosthetics - Evoked EMG based Muscle Activation Closed-loop Control in Electrical Stimulation” <i>10 minutes Discussion</i>
14:40 – 15:10	Dejan B. Popovic (University of Belgrade, Serbia) “Improved communication with the sensory-motor system via surface array electrodes” <i>10 minutes Discussion</i>
15:20 – 15:50	David Liebetanz (Georg-August-University, UMG, Germany) “Steer by ear: a novel EMG-based auricular interface for wheelchair control in individuals with spinal cord injury” <i>10 minutes Discussion</i>
16:00 – 16:20	Coffee Break
	INDUSTRIAL CHALLENGES
16:20 – 16:50	Erik Andres (Otto Bock, Germany) “Prosthetic Treatments after Nerve- Transfer – Handwork meets High-Tech” <i>10 minutes Discussion</i>
17:00	The End of Symposium

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