



MEDICAL UNIVERSITY  
OF VIENNA

## Scientific Program

### 15<sup>th</sup> Vienna International Workshop on Functional Electrical Stimulation



30 years IFESS Anniversary



Vienna, Austria, September 15.-18. Sept. 2025

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## GENERAL INFORMATION

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*The triennial “Vienna International Workshop on Functional Electrical Stimulation” provides a platform for researchers to present and discuss their recent work whilst visitors can expect a representative and actual overview of the state of the art of FES.*

### Conference venue

[Van Swieten Saal der Medizinischen Universität Wien](#)

Van-Swieten-Gasse 1a

A-1090 Vienna

### National organizers

*Medical University of Vienna*

*and*

*Austrian Society for Biomedical Engineering*

*"FES group of the Austrian Society for Biomedical Engineering"*

*M.Bijak, M. Schmoll, M.Pichler, W.Mayr*

### Contact address

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### Conference language

*The official language of the conference is English*

### Dates

|                              |                       |                      |
|------------------------------|-----------------------|----------------------|
| <i>Pre Conference Course</i> | <i>15. Sept. 2025</i> | <i>09:00 - 16:00</i> |
| <i>Come together</i>         | <i>15. Sept. 2025</i> | <i>17:30 - 19:30</i> |
| <i>Scientific program</i>    | <i>16. Sept. 2025</i> | <i>08:30 - 17:00</i> |
| <i>Cybersportsday 2025</i>   | <i>16. Sept. 2025</i> | <i>- 19:30</i>       |
| <i>Scientific program</i>    | <i>17. Sept. 2025</i> | <i>08:30 - 16:30</i> |
| <i>Conference Dinner</i>     | <i>17. Sept. 2025</i> | <i>18:00 - 23:00</i> |
| <i>Scientific program</i>    | <i>18. Sept. 2025</i> | <i>08:30 - 14:00</i> |

### Registration Desk

*Open throughout the conference*

### Conference Dinner

*17. Sept. 2025  
Waldschenke-Staar  
3001 Mauerbach, Hainbuch 1  
waldschenke-staar.at*

### Oral presentation

*Time: 15 minutes  
(10 minutes presentation and 5 minutes discussion)*

### Presentation media

*Beamer and PC for PowerPoint presentations  
(USB memory stick)*

*Speakers should submit their media 30 minutes prior to the start of their session at the slide desk.*

### Poster presentation

*The posters should be exhibited at the assigned poster board during the whole conference. All participants are encouraged to contact the authors during the coffee breaks.*

*Paper size A0, portrait.*

### Proceedings of the conference

*The proceedings with full-length papers will be available at the beginning of the workshop.*

### Detailed information

*Please find further information at the official conference homepage:*

*<https://mpbmt.meduniwien.ac.at/fesws2025>*

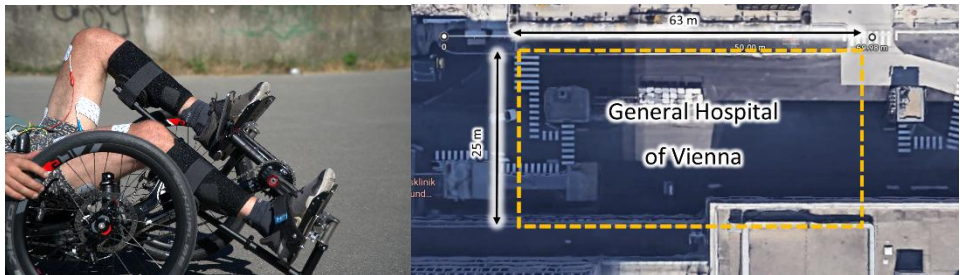
# ViennaFES | Cybersportsday 2025

## Tuesday, 16.09.2025

*For the very first time, this conference will feature a new highlight: a **FES-Cycling Race**. In this exciting event, individuals with spinal cord injury will compete head-to-head on a flat track in a real-life, over-ground race – powered solely by their paralyzed legs re-activated through FES.*

*This race is more than just a competition. Beyond showcasing athletic performance, it serves as a platform to foster connections, exchange experiences and inspire innovation. Our goal is to raise awareness for the transformative potential of FES technology, outside the scope of traditional therapeutic applications.*

*Be part of this inspiring event – and discover the exciting possibilities of FES in sports!*



## Information

**Date:** 16.09.2025  
**Location:** General Hospital of Vienna  
(AKH Michelbeuern)  
N48.219576,  
E16.344883

19:15 - 19:30h : Medal  
Ceremony

## Schedule

14:00 - 16:00h : Meet the Teams & Testruns  
16:00 - 18:00h : Qualifications  
18:30 - 19:00h : Finals



MORE INFO

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## **Monday 15.09.2025**

09:00-17:00      Pre-Conference Workshop  
17:30-19:30      Welcome Cocktail

## **Tuesday 16.09.2025**

08:20-08:30      Welcome / Opening

### **Key**

#### ***Keynote Lecture***

Chairperson:      Jonathan Jarvis (Liverpool, United Kingdom)

08:30              Stanley Salmons (Liverpool, UK)  
PARADIGM SHIFTS: THE FOUNDATIONS OF FUNCTIONAL ELECTRICAL  
STIMULATION

### **Ceremony**

#### ***30 years IFESS***

09:15

Host:              Simona Ferrante, President of IFESS (Milan, Italy)

10:15-10:45      Coffee Break

**Session 1**

***Clinical applications of FS***

Chairpersons: Tamsyn Street (Salisbury, United Kingdom)  
Werner Girsch (Graz, Austria)

- 10:45 Tamsyn Street et al (United Kingdom)  
QUALITY OF LIFE AND PATIENT REPORTED OUTCOME  
MEASURES FOLLOWING THE USE OF FUNCTIONAL ELECTRICAL  
STIMULATION FOR WALKING POST STROKE
- 11:00 Erika G. Spaich et al (Denmark)  
EFFECT OF ELECTRICAL STIMULATION ON THE TIMING OF THE  
PREPARATORY PHASE OF GAIT INITIATION IN PARKINSON'S  
DISEASE
- 11:15 Ugo Carraro et al (Italy)  
EFFECTIVENESS OF FES X DDM AFTER TWENTY YEARS OF  
PERMANENT DENERVATION AND DEGENERATION OF HUMAN  
MUSCLES
- 11:30 Christina Buchgeher et al (Austria)  
CLINICAL IMPLICATIONS OF ELECTRICAL STIMULATION IN A  
HOME-BASED TREATMENT SETTING FOR PATIENTS WITH  
FACIAL NERVE PARALYSIS TO STOP DENERVATION ATROPHY
- 11:45 Tamsyn Street (United Kingdom)  
A RANDOMISED, SHAM-CONTROLLED, REMOTELY CONDUCTED,  
PROOF OF PRINCIPLE STUDY OF ABDOMINAL FUNCTIONAL  
ELECTRICAL STIMULATION (ABFES) FOR BOWEL MANAGEMENT  
IN SPINAL CORD INJURY (SCI)
- 12:00 Ines Bersch et al (Switzerland)  
THE EFFECT OF NEUROMUSCULAR ELECTRICAL STIMULATION  
ON BOWEL MANAGEMENT IN PEOPLE WITH CHRONIC SPINAL  
CORD INJURY
- 12:15 Benjamin Forrest et al (United Kingdom)  
A RETROSPECTIVE ANALYSIS OF ABFES IN TREATING AND  
MANAGING CONSTIPATION IN INDIVIDUALS WITH  
NEUROLOGICAL IMPAIRMENT

12:30 Janez Rozman et al (Slovenia)  
STIMULATION OF NEUROVASCULAR BUNDLES DURING ROBOT-  
ASSISTED RADICAL PROSTATECTOMY

12:45-13:45 Lunch

**Session 2**

***Afferent Nerve Stimulation***

Chairpersons: Winfried Mayr (Vienna, Austria)  
Ines Bersch-Porada (Nottwil, Switzerland)

13:45 Werner Girsch et al (Austria)  
TREATMENT OF CHRONIC NEUROPATHIC PAIN WITH  
PERIPHERAL NERVE STIMULATION

14:00 Milana Mileusnic et al (Austria)  
CLINICAL ADVANCES IN FULL BODY NEUROMODULATION TO  
TREAT SPASTIC MOTOR DISORDER AND CHRONIC PAIN

14:15 Rebecca Grenfell et al (Australia)  
FUNCTIONAL IMPACT OF THE EXOPULSE MOLLII SUIT IN SPG4  
HEREDITARY SPASTIC PARAPLEGIA: A SINGLE-SUBJECT AB CASE  
STUDY

14:30 Sarah Massey et al (United Kingdom)  
OPTIMAL PARAMETERS FOR LOWER LIMB AFFERENT NERVE  
ROOT ACTIVATION USING TRANSCUTANEOUS SPINAL CORD  
STIMULATION IN HEALTHY ADULTS.

14:45 Anna Patarraia et al (Austria)  
HOME-BASED TRANSCUTANEOUS ELECTRICAL NERVE  
STIMULATION FOR IDIOPATHIC SENSORY POLYNEUROPATHY: A  
PERSONALIZED APPROACH

15:00 Dibya Chowdhury et al (Austria)  
REAL-TIME R -PEAK PREDICTION IN ECG FOR CARDIAC-GATED  
AURICULAR VAGUS NERVE STIMULATION

15:15-15:45 Coffee Break

**Session 3**

***FES-Technology***

Chairpersons: Nick Donaldson (London, UK)  
Thomas Schauer (Berlin, Germany)

- 15:45 Javier Sáez et al (Chile)  
DESIGN PARAMETERS OF CONCENTRIC ELECTRODES: A  
SIMULATION STUDY TO OPTIMISE NON-INVASIVE FUNCTIONAL  
ELECTRICAL STIMULATION
- 16:00 Kevin Schuh et al (Austria)  
LOW-RESISTANCE COST-EFFICIENT INTERFACING FOR  
NEUROSTIMULATION NEEDLES BASED ON PRINTED CIRCUIT  
BOARD TECHNOLOGY
- 16:15 Siobhan Mackenzie Hall et al (United Kingdom)  
AI ELECTRODE AND STIMULUS DESIGN FOR FES RESEARCH: A  
PILOT STUDY
- 16:30 Hany Shaker et al (Egypt)  
COST-EFFECTIVE REMOTELY FULLY-CONTROLLED ELECTRICAL  
STIMULATOR FOR SKELETAL MUSCLES REHABILITATION
- 16:45 Hermann Lanmüller et al (Austria)  
INCREASING THE RELIABILITY OF AN IMPLANTABLE PULSE  
GENERATORS FOR SMALL AND LARGE LABORATORY ANIMALS
- 17:00 Hany Shaker et al (Egypt)  
TOWARDS A SAFE LONG-TERM IMPLANTABLE ELECTRICAL  
STIMULATION: A HIGH-EFFICIENCY CHARGE BALANCER DESIGN

**17:15-19:45 ViennaFES Cybersports 2025**

## Wednesday 17.09.2025

### Key

#### *Keynote Lecture*

Chairperson: Thomas Stieglitz (Freiburg, Germany)

08:30

Stanisa Raspopovic (Vienna, Austria)  
HUMAN-MACHINE INTERFACING FOR HEALTH BENEFITS

### Session 4

#### *Sensory Restoration*

Chairpersons: Stanisa Raspopovic (Vienna, Austria)  
Eugenius Kaniusas (Vienna, Austria)

09:10

Michael Handler et al (Austria)  
COMPUTER SIMULATION OF COMBINED  
VESTIBULAR/COCHLEAR IMPLANT STIMULATION FOR THE  
ANALYSIS OF CROSS-TALK AND NEURONAL RESPONSES

09:25

Laurin Xaver Koppenwallner et al (Austria)  
FOCAL STIMULATION OF RETINAL GANGLION CELLS BY PULSE  
DURATION MODULATION AND CURRENT STEERING

09:40

Klaus Peter Koch et al (Germany)  
A FIRST APPROACH TO PHASE-MODULATED INTERFERENCE  
STIMULATION FOR GENERATING MOVING TACTILE PERCEPTION

09:55-10:25

Coffee Break

**Session 5**

***Methodological Insights***

Chairpersons: Matthias Krenn (Mississippi, United States)  
Christine Azevedo (Montpellier, France)

- 10:25 Hazzira Ameerah Safin Hashim et al (Malaysia)  
ULTRASOUND ASSESSMENT OF FOREARM MUSCLE CHANGES  
FOLLOWING FES IN SARCOPENIC ELDERLY: PRELIMINARY  
RESULTS OF A FEASIBILITY STUDY
- 10:40 Nur Azah Hamzaid et al (Malaysia)  
MUSCLE OXYGENATION-BASED CLASSIFICATION OF SPINAL  
CORD INJURY DURING FES USING NIRS AND MACHINE  
LEARNING
- 10:55 Ellen Huld A. Þórðardóttir et al (Denmark)  
INVESTIGATING PREDICTORS OF RECOVERY AFTER SPINAL  
CORD INJURY: A STATISTICAL APPROACH TO SECONDARY  
INJURY AND CLINICAL OUTCOME ANALYSIS
- 11:10 Sandra Dorfer et al (Austria)  
RESPIRATION-DRIVEN CLOSED-LOOP MODULATION OF  
BINAURAL BEATS
- 11:25 Matthias Krenn et al (United States)  
ELECTRICAL PRECONDITIONING OF DENERVATED MUSCLE  
PRIOR TO NERVE TRANSFER: A FEASIBILITY STUDY IN A NON-  
HUMAN PRIMATE MODEL
- 11:40 Jan Namysl (Poland)  
COUPLING FES AND DYNAMIC SURFACE ELECTROMYOGRAPHY:  
ADVANCING NEUROREHABILITATION
- 11:55 Ellen Huld A. Þórðardóttir et al (Denmark)  
EFFECTS OF INTERNAL AND EXTERNAL COOLING ON  
TEMPERATURE REGULATION FOLLOWING SPINAL CORD INJURY:  
A MATHEMATICAL SIMULATION-BASED STUDY
- 12:10-13:10 **Lunch**

**Session 6**

**FES-Cycling**

Chairpersons: Martin Schmoll (Vienna, Austria)  
Lynsey Duffell (London, United Kingdom)

- 13:10 Stephan Baglikow et al (Germany)  
REAL-TIME BAYESIAN OPTIMIZATION OF FES CYCLING
- 13:25 Nick Donaldson et al (United Kingdom)  
ADDING IMPOSED ANKLE MOTION TO FES CYCLING
- 13:40 Mariann Mravcsik et al (Hungary)  
FES-INDUCED CHANGES IN EXCITABILITY OF DENERVATED  
MUSCLES IN FLACCID PARAPLEGIA - CASE STUDY
- 13:55 Isabelle Rösler et al (Austria)  
DEVELOPMENT OF MODELS TO ESTIMATE REALISTIC KEY  
PERFORMANCE INDICATORS ON A FES-CYCLING-ERGOMETER
- 14:10 Tiago Coelho-Magalhães et al (France)  
OPTIMAL CONTROL FRAMEWORK FOR PERSONALIZED FES-  
CYCLING IN INDIVIDUALS WITH SPINAL CORD INJURY
- 14:25 Martin Schmoll et al (Austria)  
ASSESSING ACCURACY OF POWER-PEDALS FOR LOW POWER  
OUTPUT IN FES-CYCLING – PRELIMINARY RESULTS
- 14:40-15:10 Coffee Break**

**Session 7**

***Movement Restoration***

Chairpersons: Kristin E. Musselman (Toronto, Canada)  
Nur Azah Hamzaid (Malaya, Malaysia)

- 15:10 Jonathan Baum et al (France)  
TOWARDS ELECTROPHYSIOLOGICAL AND HISTOLOGICAL  
MAPPING OF UPPER LIMB NERVES IN PIGS USING EPINEURAL  
STIMULATION
- 15:25 Jonathan Jarvis et al (United Kingdom)  
INTERFERENTIAL OR MIDDLE-FREQUENCY STIMULATION OF  
PERIPHERAL NERVE
- 15:40 Manuela Riegler et al (Austria)  
STUDY PROTOCOL: EFFICACY OF EMG-TRIGGERED FOUR-  
CHANNEL FUNCTIONAL ELECTRICAL STIMULATION IN ARM-  
HAND PARESIS FOLLOWING STROKE
- 15:55 Christine Azevedo et al (France)  
EPINEURAL ELECTRICAL STIMULATION FOR GRASP RECOVERY:  
28-DAY STUDY IN 4 TETRAPLEGIC PARTICIPANTS
- 16:10 Gabriel Graffagnino et al (France)  
REAL-TIME GAIT EVENT DETECTION USING MOTION CAPTURE  
TO CONTROL AN ELECTRICAL STIMULATOR: PROOF-OF-  
CONCEPT
- 16:25 Christine Singleton et al (United Kingdom)  
FES THERAPY IMPROVES GAIT DYNAMICS IN PEOPLE WITH LIMB  
LOSS – A FEASIBILITY STUDY
- 16:40-22:40 **Bus to  
Waldschenke-Staar  
Hainbuch 1  
3001 Mauerbach**

## Thursday 18.09.2025

### **Key**

#### ***Keynote Lecture***

Chairperson: Simona Ferrante (Milano, Italy)

08:30 Ines Bersch-Porada (Nottwil, Switzerland)  
"THE SUCCESS OF NOTTWIL" -TAKING A CRITICAL LOOK AT HOW  
"SUCCESSFULLY" FES HAS BEEN INTEGRATED INTO  
NEUROREHABILITATION

### **Session 8**

#### ***Current Challenges and Future Directives of FES 1***

Chairpersons: Richard Crevenna (Vienna, Austria)  
Ugo Carraro (Padova, Italy)

09:00 Kristin E. Musselman et al (Canada)  
DEVELOPMENT OF TOOLKITS AS AN IMPLEMENTATION STRATEGY FOR  
FUNCTIONAL ELECTRICAL STIMULATION (FES) IN  
NEUROREHABILITATION PRACTICE

09:15 Elina Nezon et al (Canada)  
STRATEGIES TO IMPROVE USE, KNOWLEDGE, AND CONFIDENCE OF  
FUNCTIONAL ELECTRICAL STIMULATION IN CEREBRAL PALSY  
REHABILITATION

### **Key**

#### ***Keynote Lecture***

Chairperson: Anna Patariaia (Vienna, Austria)

09:30 Barbara Chaloupek (Vienna, Austria)  
FROM THE PATIENT'S PERSPECTIVE: VISION FOR THE FUTURE AND  
CURRENT OBSTACLES

**10:00-10:30 Coffee Break**

**Key**

**Keynote Lecture**

Chairperson: Manfred Bijak (Vienna, Austria)

10:30 Werner Girsch (Pressbaum, Austria)  
40 YEARS PHRENIC NERVE PACING

**Key**

**Keynote Lecture**

Chairperson: Erika Spaich (Aalborg, Denmark)

11:00 Manfred Bammer (Vienna, Austria)  
REGULATORY HURTTLES FOR INNOVATIVE MEDICAL DEVICES

**Session 9**

**Current Challenges and Future Directives of FES 2**

Chairpersons: Christine Singleton (Birmingham, UK)  
Hermann Lanmüller (Vienna, Austria)

11:30 Thomas Stieglitz et al (Germany)  
FROM INNOVATIVE IDEAS TO CLINICAL TRIALS OPPORTUNITIES AND  
OBSTACLES IN TRANSLATIONAL RESEARCH ON NEURAL IMPLANTS

11:45 Christof Ullrich (Austria)  
OVERVIEW: PROVIDING FUNCTIONAL ELECTRICAL STIMULATION TO  
PEOPLE WITH WALKING DISABILITIES IN AUSTRIA

12:00 Hans Dietel (Austria)  
A SEMI-IMPLANTABLE NEUROSTIMULATOR FOR TREATMENT OF  
DROP FOOT:  
LESSONS LEARNED ALONG A WHOLE PRODUCT LIFE CYCLE

**Round Table  
Discussion**

**12:15-13:45**

*What have we achieved, where are we going, and what do we need for a future that is successful for patients?*

Moderator: Jonathan Jarvis (Liverpool, UK)

**Panelists:**

Ines Bersch-Porada (Switzerland)

Kristin E. Musselman (Canada)

Elina Nezon (Canada)

Barbara Chaloupek (Austria)

Werner Girsch (Austria)

Manfred Bammer (Austria)

Thomas Stieglitz (Germany)

Christof Ullrich (Austria)

Peter van Burk (Netherlands)

Hans Dietl (Austria)

**13:15-14:00**    **Closing Remarks**









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Neurology

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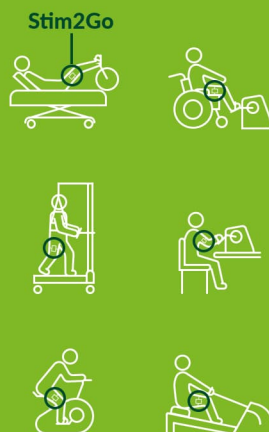


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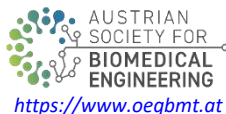
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## Partners of the Vienna FES Workshop:



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<https://meduniwien.ac.at>



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Artificial Organs



*Edited by: Vakhtang Tchantchaleishvili, MD*

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<https://streifeneder.de>



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