MEDICAL UNIVERSITY OF VIENNA

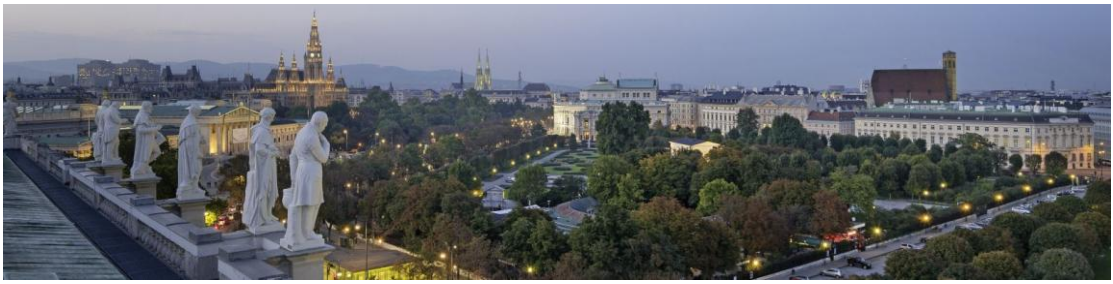
Preconference Workshop Program

15th Vienna International Workshop on Functional Electrical Stimulation

VIENNA FES

IFESS International Functional Electrical Stimulation Society

30 years IFESS Anniversary



Vienna, Austria, September 15.-18. 2025

Venue

Van Swieten Saal der Medizinischen Universität Wien
Van-Swieten-Gasse 1a
A-1090 Vienna

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Monday 15.09.2025

Theoretical Introduction

- Central and Peripheral Neuromodulation
- Denervated Muscles
- Gait correction, foot trop, peroneus stimulation

09:00 Winfried Mayr, Anna Pataraia
ACTIVATING NERVES AND MUSCLES WITH ELECTRICAL STIMULI: TECHNICAL BASICS

CASE PRESENTATION, GUEST PATIENT, EPIDURAL IMPLANT

09:20 Ines Bersch.Porada, Christina Buchgeher
CLINICAL RELEVANCE AND APPLICATION OF FES OF DENERVATED MUSCLES

GAIT CORRECTION DEVICE OPTIONS WALKAID II UND BIONESS -

09:40 Thomas Schick, Christof Ullrich
DIFFERENT PHILOSOPHIES, SIMILAR GOALS

10:00 Schuhfried, Pajunk, STIWELL, Bständig
SHORT PRESENTATION OF SUPPORTING COMPANIES

10:15-10:30 Coffee Break

Hands on 10:30 – 12:30

In Groups

Mayr W, Pataraia A & Pajunk
NONINVASIVE SPINAL CORD STIMULATION

Pataraia A, Mayr W
EPIDURAL STIMULATION

Mayr W, Pataraia A & Bständig/Exopulse-suit
NONINVASIVE PERIPHERAL

Bersch-Porada, Buchgeher C, Schuhfried & STIWELL
DENERVATED MUSCLES

Ullrich C, Bständig & Schick T, STIWELL
GAIT SUPPORT: BIONESS AND WALKAID II

12:45-13:45 Lunch

Theoretical Introduction

- EMG-controlled multichannel FES
- Multichannel-Neuroprostheses
- FES-Cycling
- Vagus Nerve Stimulation

13:00 Thomas Schick, Ines Bersch
RELEVANCE AND CLINICAL APPLICATION OF EMG CONTROLLED STIMULATION

13:20 Martin Schmoll, Rik Berkelmans
FES-CYCLING IN THEORY AND PRACTICE

13:40 Eugenijus Kaniusas
VAGUS NERVE STIMULATION: TECHNICAL BASICS AND CLINICAL APPLICATION

14:00 STIWELL, tVNS, Kurage, Berkelbike
SHORT PRESENTATION OF SUPPORTING COMPANIES

14:20-14:35 Coffee Break

Hands on 14:35 – 17:00

In Groups

Schick T, Bersch-Porada I & STIWELL
EMG CONTROLLED MULTI-CHANNEL STIMULATION

Schmoll M, Berkelmans R & Kurage-Neuroskin
FES-CYCLING, MULTI-CHANNEL NEUROPROSTHESES

Kaniusas E & tVNS
VAGUS NERVE STIMULATION

Partners of the Vienna FES Workshop:

MEDICAL UNIVERSITY OF VIENNA
https://meduniwien.ac.at

AUSTRIAN SOCIETY FOR BIOMEDICAL ENGINEERING
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IFESS International Functional Electrical Stimulation Society
https://ifess.org/

Artificial Organs
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https://onlinelibrary.wiley.com/journal/15251594

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