



# Annual Seminar 12-13.2.2015 Program

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## Thursday 12.2.

**8.30-17.30: LFT-päivä** [http://www.lfty.fi/lft\\_paiva/index.php](http://www.lfty.fi/lft_paiva/index.php) **Register separately**

**Venue: Room S1, Sähkötalo.** The suggested route is through Tietotalo (use the entrance at the bus stop (upper left) and follow the dash line: [map](#))

**Evening: 18.30. Get-together, at Teekkarisauna**

## Friday 13.2.

**Venue: Tampere University of Technology, lecture hall S4 (sähkötalo)**

**08.30 Registration and poster hang-up**

**09.00 OPENING WORDS, DIRECTOR TIMO JÄMSÄ**

**09.05 KEYNOTE SPEAKER: JARMO RUOHONEN, PHILIPS MEDICAL SYSTEMS**

**09.50 PRACTICAL ISSUES, COORDINATOR RIIKKA AHOLA**

**10.00 Coffee, poster viewing**

**10.30 ORAL PRESENTATIONS, SESSION 1 (4 X 15 MIN)**

1. MÄKELÄ NIKO	NOVEL METHODS FOR RECURSIVE MULTIPLE SIGNAL CLASSIFICATION IN EEG WITH REALISTIC BACKGROUND NOISE
2. LIUKKONEN JUKKA	ULTRASOUND ARTHROSCOPY: CLINICAL AND NUMERICAL STUDIES
3. DANSO ELVIS	SITE-SPECIFIC BIOMECHANICAL PROPERTIES OF HUMAN MENISCUS – IMPORTANCE OF COLLAGEN AND FLUID NONLINEARITIES
4. ZEVENHOVEN KOOS	NOVEL METHODS FOR IMPROVING SOURCE LOCALIZATION USING HYBRID ULTRA-LOW FIELD MRI AND MEG

**11.30 Invited speaker: PhD Tuomas Kenttä: Life after PhD**

## 12.15 Lunch

## 13.00 Oral presentations, session 2 (4x15 min)

5. HIETALA HENNA	ELEKTA VERSA HD AND AGILITY MLC CONFIGURATION IN VARIAN ECLIPSE 13.6 TREATMENT PLANNING SYSTEM
6. SANTOS FLORENTINO	FUSION OF EDGE ENHANCING ALGORITHMS FOR ATHEROSCLEROTIC CAROTID WALL CONTOUR DETECTION IN COMPUTED TOMOGRAPHY ANGIOGRAPHY
7. US DEFNE	AVANTOMOGRAPHY: A COMPACT MODULE FOR PEM
8. JAFARI TADI MOJTABA	IMPLEMENTATION OF A NOVEL DUAL GATING SYSTEM FOR MOTION CORRECTION IN NUCLEAR MEDICINE IMAGING

## 14.00 Poster session with coffee

9. CASULA VICTOR	OPTIMIZATION OF ADIABATIC $T_{1\rho}$ AND $T_{2\rho}$ FOR QUANTIFICATION OF ARTICULAR CARTILAGE AT 3T
10. GRACIA JAVIER	COMBINING FORCED OSCILLATION TECHNIQUE AND MULTILEAD IMPEANCE PNEUMOGRAPHY FOR REGIONAL ANALYSIS OF LUNG FUNCTION
11. HALONEN KIMMO	IMPORTANCE OF PATELLA AND QUADRICEPS FORCES ON PATIENT-SPECIFIC GAIT SIMULATION – A FINITE ELEMENT ANALYSIS OF THE HUMAN KNEE JOINT
12. KEKONEN ATTE	QUANTITATIVE METHOD FOR MONITORING STATUS OF CHRONIC WOUND
13. KLETS OLESYA	COMPARISON OF FINITE ELEMENT MODELING OF KNEE JOINT AND STAGE OF OSTEOARTHRITIS
14. KOPONEN LARI	ctTMS DEVICE FOR VERSATILE BRAIN STIMULATION
15. KUOPPA PEKKA	PSYCHOPHYSIOLOGICAL RESPONSES TO PLEASANT AND UNPLEASANT VISUAL STIMULATION
16. NARRA NATHANIEL	$\mu$ CT BASED ASSESSMENT OF MECHANICAL DEFORMATION OF DESIGNED PTMC SCAFFOLDS
17. PITKÄNEN MARJA	RETINAL TEMPERATURE DETERMINATION EX VIVO BASED ON ERG PHOTORESPONSES
18. PODLIPSKÁ JANA	DIAGNOSTIC PERFORMANCE OF SEMI-QUANTITATIVE KNEE ULTRASONOGRAPHY – COMPARISON WITH MOAKS
19. RONKAINEN ARI	SITE-SPECIFIC TISSUE LEVEL CHANGES IN MATURE RABBIT KNEE JOINTS 3 DAYS AFTER A PARTIAL MENISCECTOMY
20. RUSANEN JUHA	SPECTRAL SENSITIVITY OF THE MONOPOLAR CELLS IN THE BUMBLEBEE LAMINA
21. SEPPÄNEN TIINA	IMPROVED AIRFLOW WAVEFORM PREDICTION WITH RESPIRATORY EFFORT BELTS
22. TURUNEN TEEMU	DETERMINATION OF BASAL PDE ACTIVITY IN MOUSE ROD PHOTORECEPTORS
23. VARTIAINEN PAAVO	METHOD FOR SPINE MOTION MEASUREMENT USING INERTIAL SENSORS
24. VORNANEN INKERI	THE EFFECT OF LONGER RANGE CONNECTIONS ON NEURONAL NETWORK DYNAMICS

## 15.30 Awards & feedback on presentations, session chair persons and seniors

**Instructions:**

**Oral presentations:** 15 minutes including discussion

**Poster /demo presentations:** Those with odd numbers: be prepared to stand at your poster 14.00-14.45, those with even numbers 14.45-15.30. Poster board size is 120 X 120 cm. In demonstrations bring your own material (laptop, software, devices, etc.) and inform the coordinator so that screens can be ordered

**Awards:** The best oral presentation and the best poster/demo are selected by the audience, and awarded by a research travel grant of 800 euros.

**Registrations:** <https://www.webpolsurveys.com/S/FEB66E03BC1BEA87.par>

**Registration** deadline: 30.1.2015

**Accommodation Thu-Fri:** Hotel Hermica, for those who registered for it, double rooms: Insinöörinkatu 78, 33720 Tampere, tel. (03) 365 1111, [www.hermica.fi](http://www.hermica.fi)

**Costs:** iBioMEP pays travel (by train /bus / cheapest) and accommodation costs to its student members! Keep all the travel receipts. Daily allowances cannot be paid by iBioMEP. Coffee and lunch are paid.

**Contact person:** Coordinator Riikka Ahola, tel. 029 448 6007