



# 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)**

**Enter** through Tietotalo (use the entrance at the bus stop (upper left) and follow the dash line: [map](#))

**08.30 Registration and poster hang-up**

**09.00 OPENING WORDS, DIRECTOR TIMO JÄMSÄ**

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| <b>09.05 KEYNOTE SPEAKER: JARMO RUOHONEN, PHILIPS MEDICAL SYSTEMS</b> |
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**09.50 PRACTICAL ISSUES, COORDINATOR RIIKKA AHOLA**

**10.00 Coffee, poster viewing**

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

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| 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)**

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|------------------------|---|
| 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**

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| 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 IMPEDANCE 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     | cTMS 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

15.45 Closing words

**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