PHEALTH 2015 PROGRAM (Prefinal)

Tuesday, 2 June 2015

13:00 – 14:00  **Conference Registration, Coffee**


17:20 – 18:00  **Students’ Poster Session**

18:00-19:30  **Welcome Reception at Aros Congress Center, Västerås (on invitation)**
Welcome address: Mats Enlund, Centre for clinical research

**Welcome address: Damir Isovic, Mälardalen University**

**Welcome address: Peter Pharow, Organizer of the PHealth Conference Series**

**Welcome address: Mikael Wintell, HL7 Sweden**
### Wednesday, 3 June 2015

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<td>08:30-08:45</td>
<td>Registration</td>
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<td>08:45-11:00</td>
<td><strong>Welcome and Keynote Session</strong>&lt;br&gt;<strong>Chairs:</strong> Peter Pharow, Germany; Mikael Wintell, Sweden</td>
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<td>SPC Chair: Bernd Blobel, Germany – SPC Welcome Address</td>
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<td>LOC Chair: Maria Lindén, Sweden – LOC Welcome Address</td>
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<td>Director General The Swedish Council on Health Technology Assessment: Olivia Wigzell – Welcome Address</td>
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<td></td>
<td><strong>Keynote Speech:</strong> Bernd Blobel, Germany: “The Importance of Architectures for Interoperability”</td>
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<td>11:00-11:20</td>
<td>Coffee and Demo Break (Exhibition Area)</td>
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<td>11:20-13:00</td>
<td><strong>Interoperable ICT and Telemedicine</strong>&lt;br&gt;<strong>Chairs:</strong> Filipe Sousa, Portugal; Mats Björkman, Sweden</td>
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<td>A Generic Architecture for an Adaptive, Interoperable and Intelligent Type 2 Diabetes Mellitus Care System (34)&lt;br&gt;Gustavo Uribe, Bernd Blobel, Diego López, Stefan Schulz (Colombia, Germany, Austria)</td>
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<tr>
<td>Time</td>
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<td>13:00-14:00</td>
<td>Lunch</td>
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A Generic System-level Architecture for Self-Serve Health Monitoring System through Internet of Things (IoT) (46)
   Mobyen Uddin Ahmed, Mats Björkman, Maria Lindén (Sweden)

A Framework for (Tele-) Monitoring of Rehabilitation Progress in Stroke Patients
   Dietmar Rafolt (Austria)

16:00-16:20   COFFEE BREAK - POSTERS AND EXHIBITION AREA – DEMO CORNER

16:20-18:00   INNOVATIVE MATERIALS AND METHODOLOGIES
   CHAIRS: FRANK OEMIG, GERMANY; NIKOLA PETEROVIC, SWEDEN

Interactive Distance Technology Enabling Home-Based Motor Training for Stroke Patients (3)
   Maria Ehn, Pär Hansson, Marie Sjölinder, Inga-Lill Boman, Mia Folke, Disa Sommerfeld, Jörgen Borg, Susanne Palmcrantz (Sweden)

Psychologist in a Pocket (15)
   Jó Ágila Bitsch, Roann Ramos, Tim Ix, Paula Glenda Ferrer-Cheng, Klaus Wehrle (Germany, Philippines)

Smartphone Serious Games for Senses Evaluation (24)
   Pedro Dias, Bruno Aguiar, Filipe Sousa, Augusto Sousa (Portugal)

An in vitro Study of Protein Adsorption to Biocompatible Coatings (27)
   Trine Seeberg, Hanne O. Austad, Ingelin Clausen, Henning Cederkvist, Magnar Bjørås, Rune Forstørn Johansen (Norway)
Thursday 4 June 2015

09:00-09:45  Keynote Session
Chairs: Bernd Blobel, Germany, Maria Lindén, Sweden

Keynote Speech: Anna Lefevre Skjöldbrand, Sweden: “Technology ready to be launched, but is there a payer?”

09:45-11:30  Solutions for Personalized Care and mHealth Applications
Chairs: Hamid Gholamhosseini, New Zealand; Elaine Åstrand, Sweden

Invited Speech: Diego M. López, Colombia: “mHealth in Low- and Middle-Income Countries: Status, Requirements and Strategies”

Mobile ECG Systems and Cardiovascular Risk: A Systematic Review (36)
Sebastián Felipe Landínez García, César Villamil Perafán, Diego López, Bernd Blobel (Colombia, Germany)

Towards Brain Research in a Pocket: Bringing EEG Research and Diagnostics out of the Lab (12)
Jó Ágila Bitsch, Roann Ramos, Cassandra Severijns, Klaus Wehrle (Germany, Philippines)
Development of an Eating Aid from the User Needs to a Product (51)
Ann-Louise Lindborg, Maria Lindén (Sweden)

11:30-11:50  COFFEE AND DEMO BREAK (EXHIBITION AREA)

11:50-13:10  WEARABLE AND IMPLANTABLE DEVICES AND SYSTEMS
CHAIRS: DIEGO LÓPEZ, COLOMBIA; MARTIN EKSTRÖM, SWEDEN

A Study of Different Fabrics to Increase Radar Cross Section of Humans (4)
Torbjörn Ödman, Jan Welinder, Nils-Bertil Andersson, Magnus Otterskog, Maria Lindén, Natalia Ödman, Christer Larsson (Sweden)

Encapsulation for Smart Textile Electronics – Humidity and Temperature Sensor Performance (32)
Andreas Larsson, Thanh-Nam Tran, Knut E Aasmundtveit, Trine Seeberg (Norway)

Business Model Design for a Wearable Biofeedback System (38)
Patrik Hidefjäll, Dina Titkova (Sweden)

Impedance Matching Wireless Power Transmission System for Biomedical Devices (41)
Kin Yun Lum, Maria Lindén, Tian Swee Tan (Malaysia, Sweden)

13:10-14:10  LUNCH

14:10-15:50  INTELLIGENT SYSTEMS
**CHAIRS: PEKKA RUOTSALAINEN, FINLAND; SHAHINA BEGUM, SWEDEN**

Advanced Decision Support System for Older Adults (19)
   *Mirza Baig, Hamid Gholamhosseini, Martin Connolly, Maria Lindén (New Zealand, Sweden)*

Supervised Machine Learning Algorithms to Diagnose Stress for Vehicle Drivers Based on Physiological Sensor Signals (43)
   *Shaibal Barua, Shahina Begum, Mobyen Uddin Ahmed (Sweden)*

A Personalized Health-Monitoring System for Elderly by Combining Rules and Case-based Reasoning (47)
   *Mobyen Uddin Ahmed (Sweden)*

A Public Health Decision Support System Model using Reasoning Methods (49)
   *Maritza Mera, Carolina González, Bernd Blobel (Colombia, Germany)*

15:50-16:10  **COFFEE BREAK - POSTERS AND EXHIBITION AREA – DEMO CORNER**

16:10-17:05  **SECURITY, PRIVACY, SAFETY AND ETHICS**
**CHAIRS: PETER PHAROW, GERMANY; IVAN TOMASIC, SWEDEN**

**INVITED SPEECH: PEKKA RUOTSALAINEN, FINLAND: “THE ROLE OF PATIENTS IN pHEALTH”**

Personalized Message Routing Policy in Pervasive eHealth Applications Based on HL7 RIM (13)
   *Nachoua Guizani, Jocelyne Fayn (France)*
17:05-17:45  **GENERAL POSTER SESSION**

**CHAIRS:** Maria Lindén, Sweden; Asbjørn Hovsto, Norway

**POSTER SHORT PRESENTATION**

Assisting Drug Dispensing using Google Glass: a Prototype Implementation (5)

_Frederic Ehrler, Raphaël Diener, Christian Lovis (Switzerland)_

Wearable Sensors in Medical Education: Supporting Hand Hygiene Teaching with a Forearm EMG (6)

_Ekaterina Kutafina, David Laukamp, Stephan M. Jonas (Poland, Germany)_

Prediction of Heart Attack Risk Using GA-ANFIS Expert System Prototype (9)

_Lejla Begic Fazlic, Aja Avdagic, Ingmar Besic (Croatia, Germany)_

Smart Wireless Sensor for Physiological Monitoring (18)

_Ivan Tomasic, Viktor Avbelj, Roman Trobec (Sweden, Slovenia)_

Personalized Decision Support System Based on Clinical Practice Guideline
17:45-18:20  **CLOSING CEREMONY**

**CHAIRS:** Bernd Blobel, Germany; Peter Pharow, Germany; Maria Lindén, Sweden; Mobyen Uddin Ahmed, Sweden

**BEST CONTRIBUTION AWARD**

**BEST STUDENT’S POSTER AWARD**