EuroMISE
Mentor Association

International Conference

Electronic Healthcare Documentation

and

Mentoring Course

Health Information Management

February 10th-12th 2016, Prague, The Czech Republic

www.euromise.net

PROGRAM

Publications from the International Conference Electronic Healthcare Documentation are available at www.ijbh.org

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General Information

Date, Place and Registration

International Conference

Electronic Healthcare Documentation

Thursday, February 11th 2016, 9:00-17:00

Venue: House of Physicians, Sokolská 31, Prague 2

Registration: Thursday, Febuary 11th 2016, 8:00-15:00

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Date, Place and Registration

Mentoring Course

Health Information Management

Wednesday, February 10th 2016, 9:00-16:30

Friday, February 12th 2016, 9:00-14:00

Venue: Faust House, Academic Club of the First Faculty of Medicine, Charles University, Karlovo náměstí 40, Prague 2

Registration: Wednesday, February 10th 2016, 8:30-16:00

Keynote Speakers

International Conference

Electronic Healthcare Documentation

Thursday, February 11th 2016, 9:00-17:00

Jan H. van Bemmel

Erasmus University of Rotterdam, The Netherlands

Jan H. van Bemmel has been Professor and Chairman of Medical Informatics at the Faculty of Medicine of Erasmus University Rotterdam. He received an MSc in Physics and Mathematics from the Technical University Delft (1963) and a PhD in Physics and Mathematics from the University of Nymegen (1969). He was Head of the Department of Biosignal Processing at the Institute of Medical Physics TNO in Utrecht (1963-1973). He was Professor of Medical Informatics of the Faculty of Medicine at the Free University of Amsterdam from 1973 until he assumed his last position in 1987. From 200-2003 he has been Rector Magnificus of Erasmus University Rotterdam. His did research in the areas of computer-assisted electrocardiography, computer-based patient records, pattern recognition, image processing, and decision-support methodologies. He has been Chief Editor of Methods of Information in Medicine, the IMIA Yearbooks of Medical Informatics, and the Handbook of Medical Informatics. He was a member of the editorial boards of Computer Methods and Programs in Biomedicine, and Medical Informatics. He has been the Chairman of the Dutch Society for Medical Informatics, VMBI, and past President of the International Medical Informatics Association, IMIA. He is a member of the Royal Netherlands Academy of Arts and Sciences, a member of the Institute of Medicine in the USA and a fellow of the American College of Medical Informatics.

Keynote Speakers

International Conference

Electronic Healthcare Documentation

Thursday, February 11th 2016, 9:00-17:00

Bernd Blobel

University of Regensburg, Germany

Bernd Blobel, PhD, FACMI, FACHI, FHL7, FEFMI, Professor, trained in mathematics, technical cybernetics and electrical engineering, physics, theoretical medicine, informatics and medical informatics, was Founder and Head of the Medical Informatics Department as well as Director of the Institute for Biometry and Medical Informatics at the Magdeburg University. In 2004, he moved as Founder and Head of the Health Telematics Project Group to the Fraunhofer Institute for Integrated Circuits in Erlangen, before he was appointed in 2006 as Head of the German eHealth Competence Center (eHCC) at the University Hospital Regensburg. Bernd Blobel is Past-Chair of IMIA WG „Standards in Health Care Informatics" and was long-term Chair of EFMI WGs "EHR" and "Security, Safety and Ethics". He is Past-Chair of HL7 Germany and has been Chair of the CEN/ISSS eHealth Standardization Focus Group, Chair of the German Health Informatics Standards Body as well as Head of the German Delegation to ISO TC215 and CEN TC251. He provides research and education on EHR, personal health, architectures, ontologies, modeling, interoperability, security, privacy, safety, and bioinformatics issues, new technologies and paradigms including big data and analytics at universities in many countries around the world.

Committees

Scientific Program Committee

Bernd Blobel, Professor,
University of Regensburg, Germany, chair

Ladislav Dušek, Director,
Institute of Health Information and Statistics, Czech Republic

Rolf Engelbrecht,
chair of EFMI-HIME and ProRec Germany

Ed Hammond, Director,
Duke Center for Health Informatics, United States of America

Arie Hasman, Professor emeritus,
University of Amsterdam, The Netherlands

Pirkko Nykänen, Professor,
University of Tampere, Finland

Jaroslav Pokorný, Professor,
Charles University in Prague, Faculty of Mathematics and Physics,
Czech Republic

Milan Tuček, Associate Professor,
Charles University, First Faculty of Medicine, Czech Republic

Jana Zvárová, Professor,
Charles University in Prague, First Faculty of Medicine, Czech Republic

Local Organizing Committee

Jana Zvárová, Chair

Lenka Lhotská, Vice-chair

Members:

Anna Andrlová

Martin Ouvín

Anna Schlenker

Libor Seidl

Program - Conference

ELECTRONIC HEALHCARE DOCUMENTATION

Thursday, February 11th 2016, 9:00-13:00

by the EuroMISE Mentor Association and Czech Society of Biomedical Engineering and Medical Informatics J.E. Purkyně
under the auspices of Charles University in Prague, First Faculty of Medicine
Venue: House of Physicians, Sokolská 31, Prague 2

9:00-9:15 Opening Session of the Conference

Bernd Blobel, Štěpán Svačina, Jana Zvárová

9:15-10:30 Session I

Chairs: Pirkko Nykänen, Jaroslav Pokorný

9:15-10:00 Van Bemmel J.H.: Developments in Medical Informatics – Can the Future be Predicted from the Past?

10:00-10:15 Lhotská L., Pharow P., Cheshire P., Burša M., Huptych M.: Gaming Technology as a Tool for Active Engagement of Users in Self-Management of Health State

10:15-10:30 Kalina J., Zvárová J.: Clinical Decision Support: Statistical Hopes and Challenges

10:30-11:00 Coffee Break

11:00-13:00 Session II

Chairs: Arie Hasman, Milan Tuček

11:00-11:45 Blobel B.: EHR/PHR Systems Today and in the Future

11:45-12:00 Ye R., Nykänen P.: Semantic Interoperability Challenges for Electronic Health Records

12:00-12:15 Zvára K., Chleborád K., Dostálová T., Zvárová J.: Electronic Oral Health Record in Dental Care

12:15-12:30 Macků D., Novotná I.: The Public´s Acceptance of eHealth in the Czech Republic-Condition for Success

12:30-13:30 Lunch break

13:30-15:15 Session III

Chairs: Bernd Blobel, Lenka Lhotská

13:30-13:45 Adelöf A.: The Emerge of Clinical Terminology - SNOMED CT

13:45-14:00 Zvolský M., Bláha M., Mužík J.: Structured and Standardized Data Collection in the Czech National Cancer Registry

14:00-14:15 Hynek M., Stejskalová D., Zvárová J., Stejskal D: Chorionic Villus Sampling: an Overview of the 11-year Period in a Single Centre and Identifying Risk Factors for Miscarriage

14:15-14:30 Bochicchio M, Vaira L: Fetal Growth: Where Are Data? It s Time For a New Approach

14:30-14:45 Mateják M., Potůček J., Douša J.: Genetic Data of Patient in Pharmacology

14:45-15:00 Ložek M., Janoušek J., Lhotská L.: Advanced Collection and Elaboration of Catheterization Data

15:00-15:15 Hrachovina M., Lhotská L., Huptych M: Body Surface Potential Mapping Data in a Small Scale Study

15:15-15:30 Coffee Break

15:30-16:30 **Session IV**

Chairs: Pirkko Nykänen, Jana Zvárová

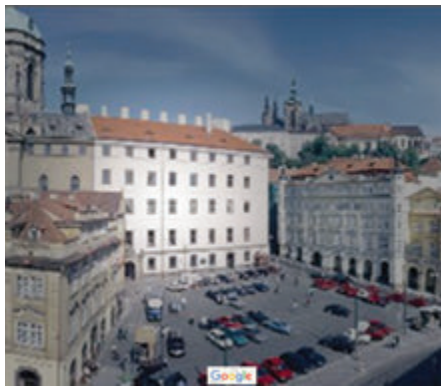
15:30-16:30 Panel Discussion: Electronic Health Care Documentation - What Should Be Integrated and How Can This Be Done?

Panelists: Anna Adelöf, Bernd Blobel, Ladislav Dušek, Arie Hasman, Pirkko Nykänen

16:30-17:00 **Closing Session of the Conference**

18:30-19:30 Sightseeing tour of the historical parts of Profesní dům guided by Antonín Kučera from Charles University in Prague, Faculty of Mathematics and Physics

19:30-22:00 Dinner in the Restaurant Profesní dům, Malostranské náměstí 25, 118 00 Praha 1



Mentoring course - Part I

HEALTH INFORMATION MANAGEMENT

Wednesday, February 10th 2016

Venue: Faust House, Academic Club of the First Faculty of Medicine, First Faculty of Medicine, Charles University, Karlovo náměstí 40, Prague 2

9:00-10:30 **Session I**

Jana Zvárová

Medical Informatics Structure. Methods of collecting and sharing data and knowledge in biomedicine and healthcare.

Štěpán Svačina

Quality of collected clinical information.

10:30-10:45 **Coffee Break**

10:45-12:15 **Session II**

Bernd Blobel

Electronic Health Record (EHR). EHR systems. Basic requirements on EHR systems. Standards.

12:15-13:15 **Lunch break**

13:15-14:45 **Session III**

Pirkko Nykänen

Electronic Healthcare Documentation. Safe information systems for storing personal and medical data. Ethical and legal aspects.

14:45-15:00 **Coffee Break**

15:00-16:30 **Session IV**

Bernd Blobel

Implementation examples for EHR systems in health and social care. Interoperability challenges.

Mentoring course - Part II

HEALTH INFORMATION MANAGEMENT

Friday, February 12th 2016

Venue: Faust House, Academic Club of the First Faculty of Medicine, First Faculty of Medicine, Charles University, Karlovo náměstí 40, Prague 2

9:00-11:00 **Session V**

Anne Adelöf

Classification systems and nomenclatures: SNOMED CT

Discussion

11:00-12:00 **Lunch break**

12:00-13:30 **Session VI**

Arie Hasman

On the quality of diagnostic hospital discharge data for medical practice assessment

13:30-14:00 **Session VII**

Arie Hasman, Jana Zvárová

Discussion and closing of the mentoring course

The Faust's House

Walking on Charles Square, you can find a house so mystical as it is its name – Faust House (Faustuv dum). Legendary Dr. Faust is known for his pact with the devil and a black magic. Even though real Dr. Faust probably never visited Prague, this house got its name for its mystical history and especially for its eccentric inhabitants.

In the 14th century this baroque mansion was owned by Prince Vaclav of Opava who was very keen on natural sciences and alchemy. He was the first one who gave rise for the association with Faust legend because of his special profession. Under rule of Rudolf II. astrologer Jakub Krucinek lived there with two sons. The younger son killed the older one for alleged treasure hidden in the house.

Among other dwellers of the Faust house were also famous alchemist Edward Kelley or Ferdinand Antonin Mladota of Solopysky whose chemical experiments (which sometimes led to big explosions making even holes in the roof!) scared people in the neighbourhood. Mladota's son was good not only at physics and chemistry but also at mechanics. He astounded his visitors by a door opening itself, a flying staircase or electric shocks while touching the handle.

After that a pure student lived in that house. He tried to cover the holes in the ceiling but unsuccessfully. A legend says that he found a secret book, read some spells and was taken through the holes by the devil like Dr. Faust.

Faust House in Charles Square Probably the most eccentric dweller of the Faust house was Karl Jaenig in the 19th century. He painted the walls with funeral texts, he had a functional gallows at home and slept in a wooden coffin. In his will he wished to be put into his coffin with his face to the bottom.

Even though names of the dwellers may be forgotten, their unusual behaviour in the eyes of other people created a legend that will always stay alive.

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