

# Special Interest Group in Healthcare Association for Information Systems



## SIGHealth Newsletter

Volume 6 ■ Issue 3 ■ July 2013

### Editor's Notes...

Summer greetings!

In the July issue, our first article reports the activities and plans of our SIGHealth president, Vance Wilson. The other feature articles offer details on SIGHealth activities during the up-coming AMCIS conference in Chicago, Illinois. AMCIS 2013 features six SIGHealth paper sessions (18 paper presentations) and three SIGHealth round table sessions (12 research in-progress papers). Also on Friday, August 16<sup>th</sup>, SIGHealth will hold our annual business meeting from 6:00 – 7:00 PM in the PDR1 room on the 3<sup>rd</sup> floor of the Hilton Chicago (conference hotel). A hotel map is included under the AMCIS 2013 SIGHealth activities section.

In our SIGHealth community news and professional accomplishment section, the July newsletter offers several information items. A research collaboration call from Duncan Unwin (Business Aspect) solicits members interested in evaluating HIT value in hospitals. In addition, congratulations are offered to Chelley Vician (St. Thomas University) on achieving CSIA certification and Monica Tremblay (Florida International University) for her current efforts in extramural funded research studies.

In closing, I would like to continue the call to the SIGHealth membership for help in identifying SIGHealth resources. I hope you will share your practitioner and research experiences with other SIGHealth members through contributions to your newsletter. We have established a Gmail account ([sighealthnewsletter@gmail.com](mailto:sighealthnewsletter@gmail.com)) to expedite your submissions. Content received during each quarter will appear in the up-coming issue and timely material can be added to the SIGHealth Website or bundled into a special newsletter issue. Suggested content categories are:

- News about SIGHealth members (up to 300 words)
- We welcome SIGHealth related essays (about 900 words) from industry professionals.
- News and approaches to teaching e-health (up to 1800 words)
- “How to’s” on research methods, getting papers published, reviewing papers, etc.
- Any other announcements (up to 300 words for each item).

In the meantime, please remember to re-designate your membership in SIGHealth when you renew your AIS membership during conference registration.

This newsletter issue also highlights upcoming networking and publishing opportunities for regional and international workshops and conferences, with more details posted via <http://www.aissighealth.com>.

Warmest regards,

Jim Ryan, Ph.D.

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## Feature Articles...

### President's Report...

Vance Wilson

As we move through the summer and prepare to enter the fall academic semester (in the northern hemisphere, that is), I can report that SIG-Health continues to provide a strong presence in the AIS community, hosting an expanding range of conference tracks and supporting an increasing annual membership (163 members as of the beginning of July). This is good news, and it suggests we are on the right path. Yet we are always open to improvements, especially well-considered ideas that can improve services to our members and volunteering for service in SIG leadership roles.

Here is what has happened during the past three months.

**May** - Plans were made for the Annual SIG-Health Business Meeting to be held in conjunction with the Americas Conference on Information Systems (AMCIS) 2013 being held in Chicago, USA during August.

**June** - Our 2012 SIG-Health Annual Report was prepared and submitted to AIS offices in June. SIG-Health was represented at the European Conference on Information Systems (ECIS) 2013 held June 6-8 in Utrecht, Netherlands with presentation of 14 papers in 5 sessions. The SIG was represented at the Pacific Asia Conference on Information Systems (PACIS) 2013 held June 18-22 on Jeju Island in Korea with presentation of 6 papers in 2 sessions.

**July** - Preparations were made to host the SIG-Health track at AMCIS 2013 in Chicago. We have 18 completed research papers and 12 research-in-progress papers scheduled for presentation at AMCIS.

**SIGHealth Meeting at AMCIS 2013** - The 2013 SIG-Health Business Meeting will be held from 6-7 pm on Friday, August 16 in the PDR 1 room of the Chicago Hilton (the AMCIS Conference Hotel). As is our tradition, the meeting is open to all interested AIS members, and we once again plan to serve regional beers and wines (it is my goal to prove there are some good Wisconsin wines). I hope to see you there!

Vance Wilson,  
SIG-Health President (2012-2014)



### AMCIS 2013 Itinerary Planner...

Jim Ryan

The AMCIS 2013 itinerary planner is online as an available link from the AIS website (<http://http://eventmobi.com/AMCIS2013/#!/>). This scheduling tool allows AMCIS attendees to browse online the pre-conference activities, panel sessions, workshops, ancillary meetings, tracks, paper abstracts, and round table discussions—prior to your arrival. Moreover, individuals who cannot attend are able to see conference activities and share in the knowledge dissemination.

The itinerary planner allows conference attendees to map and plan their itinerary, day-by-day, with schedule conflicts highlighted. AMCIS attendees can browse and search conference activities by day or type, creating their own individualized conference itinerary that can be saved or shared with colleagues. For AMCIS 2013, all SIGHealth paper presentations are scheduled at the conference hotel (Hilton Chicago) in the 4A room, located on the 4<sup>th</sup> floor, and round table discussions (research in-progress papers) are scheduled in the Boulevard room on the 2<sup>nd</sup> floor. The following schedule of SIGHealth paper presentations and round tables are from the itinerary planner.

### FRIDAY, AUGUST 16

#### Electronic Medical Records 1:30 – 3:00 PM

*Session Chair: Richard Klein, Florida International University*

“**Seeing EMR Emergence through a Practice Lens: Implications for Smaller Healthcare Practices**” by Kai Reimers, RWTH Aachen University; Stefan Klein, Muenster University; Robert B. Johnston, University College Dublin; Susanna Steiner van der Kruk, RWTH Aachen University

“**Design of an Enterprise Architecture for Electronic Patient Care Record (ePCR) Information Exchange in EMS**” by Benjamin Schooley, Neset Hikmet, University of South Carolina - Columbia

“**Patients’ Behavioral Intention toward Using Healthcare Robots**” by Ahmad Alaiad, Lina Zhou, University of Maryland-



Baltimore County

### Pharmacoinformatics 3:30 – 5:00 PM

*Session Chair: Tajelsir Mo5:hamed Gasmelseid, King Faisal University*

**"Model Development for Prediction of Diabetic Retinopathy"** by Mohsen Sangi, Khin Than Win, Farid Sharvani, John Fulcher, University of Wollongong

**"Improving Self Reporting of ADRs Using Socially-coupled Pharmacoinformatics in Al Ahsaa Area"** by Tagelsir M. Gasmelseid, King Faisal University

**"Considerations of Electronic Medications Management Systems in a Hospital Setting"** by Phil Joyce, Swinburne University of Technology

### Round Table | Health Information Systems and Technology 3:30 – 5:00 PM

*Session Chair: Chi Zhang, Southern Polytechnic State University*

**"A Provider's Perspective on Electronic Health Record Systems Adoption in Small Practices"** by Chi Zhang, Southern Polytechnic State University

**"The Suitability of Artificial Neural Networks in Service Quality Control and Forecasting for Healthcare Contexts"** by Mohammad Rezazadeh Niavarani, RMIT University; Ron Sultana, Epworth Healthcare; Nilmini Wickramasinghe, RMIT University, Epworth HealthCare

**"Toward Systematic Identification of Stakeholders for Healthcare Information Systems: A Feature-Based Method"** by Mohammed Sajedur Rahman, Myung Ko, The University of Texas at San Antonio

**"Investigating the Impact of Facebook Use on Cancer Survivors' Psychological Well-being"** by Seyedezahra (Shadi) Erfani, Babak Abedin, Macquarie University; Farhad Daneshgar, Australian School of Business, University of New South Wales

**"Development of a Change Readiness Scale for Electronic Medical Record Systems Implementation at Hospitals"** by Afnan Afnan, University of Illinois at Chicago, Syiah Kuala University Banda Aceh, Indonesia; Ranganathan Chandrasekaran, University of Illinois at Chicago

### Round Table | Smart Health and mHealth 3:30 – 5:00 PM

*Session Chair: Mary Beth Watson-Manheim, University of Illinois at Chicago*

**"Knowledge Management System and Infertility Treatment Using Traditional Chinese Medicine"** by Wendy Wang, Trident University; Ming Wang, Fidelity Information and Technology LLC; Lijuan Jiang, Yunnan College of Traditional Chinese Medicine

**"An Extension of the UTAUT 2 in a Healthcare Context"** by Abirami Muruges-Warren, Soudeh Mashayekhi, Uzoma Nnajiuba, Shadi Abdel-gadir, Sandeep Dubb, Asad Saeed, Danny Sudbury, Benita Cox, Imperial College Business School; Jochem Caris, St Mary's Hospital NHS Trust, London, UK

**"Developing Targeted Text Messages for Enhancing Medication Adherence"** by Mary Beth Watson-Manheim, Stephanie Crawford, Cheryl Nakata, Sophie Xiao, Elizabeth Holly, Jelena Spanjol, Lisa Sharp, Anna Cui, University of Illinois at Chicago;

**"Knowledge Contribution in Online Health Communities: An Exploratory Examination"** by Benjamin Kuo, C Ranganathan, University of Illinois at Chicago

**"Investigating Privacy and Security Challenges of mHealth Applications"** by Stacy Mitchell, Scott Ridley, Christy Tharenos, University of North Carolina - Wilmington; Upkar Varshney, Georgia State University; Ron Vetter, Ulku Yaylacicegi, University of North Carolina - Wilmington

## SATURDAY, AUGUST 17

### Improving Healthcare 1 8:30 – 10:00 AM

*Session Chair: Bengisu Tulu, Worcester Polytechnic Institute*

**"Information Technology and Human Factors Affecting the Accuracy of the Active Medication List: An Empirical Study Based on Three Hospitals"** by Robert J Boncella, Wenying Nan Sun, Washburn University; Carol J Boncella,



Lawrence Memorial Hospital

**"Cloud Computing in Healthcare – a Literature Review on Current State of Research"** by Tatiana Ermakova, Jan Huenges, Koray Erek, Ruediger Zarnekow, Technical University of Berlin

**"Taxonomy Development in Health-IT"** by Upkar Varshney, Georgia State University; Robert C Nickerson, San Francisco State University; Jan Muntermann, University of Goettingen

**Improving Healthcare 2 10:30 AM – 12:00 PM**

Session Chair: Diane Strong, Worcester Polytechnic Institute

**"Electronic Medical Records Implementation: Lessons Learned from ERP"** by Mary Sumner, Southern Illinois University Edwardsville

**"Message Generation Facilities for Interoperability in Pervasive Healthcare Environments"** by João Luís Cardoso de Moraes, Wanderley L Souza, Federal University of São Carlos; Luis Ferreira Pires, University of Twente; Antonio Francisco do Prado, Federal University of São Carlos

**"A Balanced, Systems Approach to Business Process Management Aligned to Hospital Strategy"** by Jim Ryan, Troy University; Barbara Doster, Sandra Daily, University of Alabama-Birmingham Hospital; Carmen Lewsi, Troy University

**Smart Health and Wellbeing 1:30 – 3:00 PM**

Session Chairs: Bernard Han and Sharie Falan, Western Michigan University

**"A Conceptual Architecture for an ICT-based Personal Health System for Cardiac Rehabilitation"** by Alexandra Theobalt, Andreas Emrich, Dirk Werth, Peter Loos, German Research Center for Artificial Intelligence

**"Automatic Message Triage: Decision Support from Patient-Provider Messages"** by Amir Tavasoli, Norm Archer, McMaster University

**"Perceived Usefulness and Behavioral Intention to Use Consumer-Oriented Web-Based Health Tools: A Meta-Analysis"** by Michael S. Dohan, Joseph Tan, McMaster University

**Successful and Sustainable mHealth 3:30 – 5:00 PM**

Session Chairs: Nilmini Wickramasinghe, RMIT University, Sweta Sneha, Kennesaw State University

**"Exploring the Use of Mobile Devices for Knowledge Sharing in Healthcare: A Hospital Case Study"** by Paola A Gonzalez, Yolande E Chan, David H Goldstein, Queen's University - Kingston

**"Mobile Health Information Technology and Patient Care: A Literature Review and Analysis"** by Majid Dadgar, Bahae Samhan, K. D. Joshi, Washington State University

**"Adoption of Telemedicine - Challenges and Opportunities"** by Ramakrishna Dantu, Radha K. Mahapatra, University of Texas at Arlington

**Round Table | Green IS and Sustainability, mHealth, and Telemedicine 3:30 – 5:00 PM**

Session Chair: Michael G. McGrath, Victoria University

**"A mHealth Architecture for Diabetes Self-Management System"** by Omar El-gayar, Prem Timsina, Nevine Nawar, Dakota State University

**"Stakeholders Analysis of Ethiopian Telemedicine Projects, the Case of Black Lion Hospital, Addis Ababa, Ethiopia"** by Getachew Hailemariam, Addis Ababa University; Monica J Garfield, Bentley University; Asfaw Atnafu Kebede, Addis Ababa University; Philip F Musa, Univ. of Alabama at Birmingham, USA

**AMCIS 2013 Consolidated SIGHealth Activities...**

**Jim Ryan**

The following list is a grouping of consolidated SIGHealth activities occurring during AMCIS 2013 and the floor plans (<http://www.hiltonchicagohotel.com/meetings-events/tools/floorplans/>) for each meeting room. We thank you for your participation and we look forward to seeing you in Chicago.

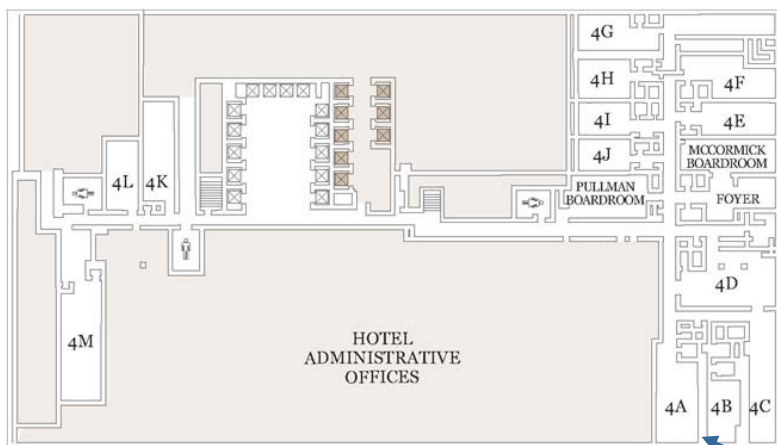
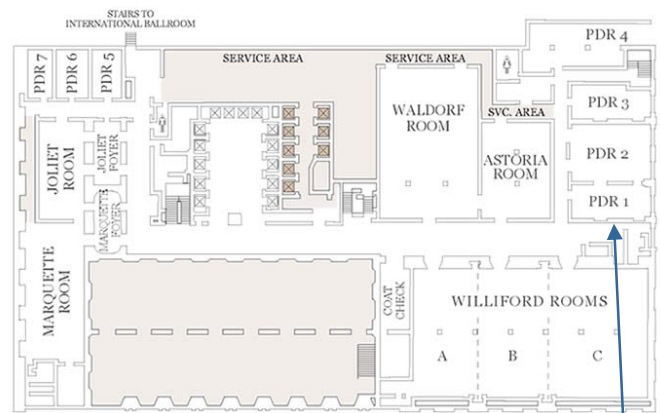
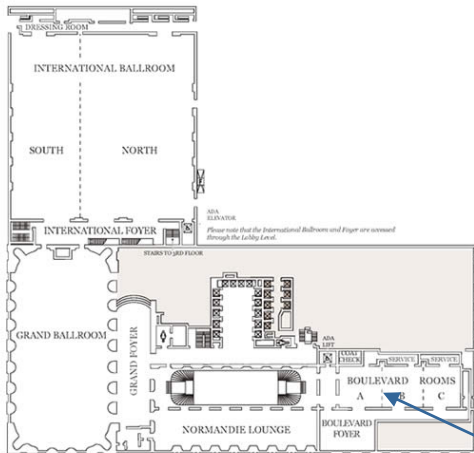


**FRIDAY, AUGUST 16**

- 1:30 PM - 3:00 PM—Electronic Medical Records; A4, 4th Floor
- 3:30 PM - 5:00 PM—Pharmacoinformatics; A4, 4th Floor
- 3:30 PM - 5:00 PM—Round Table | Health Information Systems and Technology; Boulevard, 2nd Floor
- 3:30 PM - 5:00 PM—Round Table | Smart Health and mHealth; Boulevard, 2nd Floor
- 6:00 PM - 7:00 PM—SIG-Health Business Meeting; PDR1, 3rd Floor

**SATURDAY, AUGUST 17**

- 8:30 AM - 10:00 PM—Improving Healthcare 1; A4, 4th Floor
- 10:30 AM - 12:00 PM—Improving Healthcare 2; A4, 4th Floor
- 1:30 PM - 3:00 PM—Smart Health and Wellbeing; A4, 4th Floor
- 3:30 PM - 5:00 PM—Successful and Sustainable mHealth; A4, 4th Floor
- 3:30 PM - 5:00 PM—Round Table | mHealth and Telemedicine; Boulevard, 2nd Floor



The SIGHealth round table meetings will be held in the Boulevard room on the 2nd floor.

The SIGHealth business meeting will be held in the PDR1 room on the 3rd floor.

SIGHealth paper sessions will be held in the 4A room on the 4th floor.



Quick Response Code (QR code) for SIGHealth...

Mike Dohan



QR code (abbreviated from Quick Response Code) is a type of matrix barcode that has gained commonality with the advent of smart phones. QR's provide quick and effortless access to websites and thanks to Mike, here is SIGHealth's very own QR.

Professional Accomplishments & SIGHealth Community News...

**A call for collaboration from Duncan Unwin (dunwin@inet.net.au)**, who would like to reach out to other SIGHealth members interested in evaluating the benefits of healthcare information technology (HIT) in hospitals. **Louis Sanzogni** and Duncan have just completed a systematic review of HIT benefits in Australian hospitals, which is being submitted to ACIS 2013. Both Duncan and Louis are interested in making contact with other researchers who are interested in investigating the translation of HIT adoption in hospitals to hospital performance.

**Congratulations to Chelley M. Vician (cvician@stthomas.edu)** who recently achieved her certification as a Certified Information System Auditor (CISA) through ISACA this summer. Although this practice-oriented certification may not be directly tied to academic healthcare research, it is of key importance to information systems security in healthcare organizations and healthcare data protection according to external regulations (e.g., HIPAA).

**Congratulations to Monica Chiarini Tremblay (tremblay@fiu.edu)** who is currently running these interesting funded studies:

1. State Evaluator for the HIE Implementation in the state of Florida (Agency for Healthcare Administration, Florida);
2. State Evaluator for the HIE Implementation in the state of Rhode Island (Rhode Island Quality Institute);
3. An ONC Funded study, using Use Cases, to investigate Direct HIE implementations in Rhode Island, Alabama, Florida and Illinois (ONC);
4. A locally funded study evaluating medical passports for foster children (Health Foundation of South Florida).

Networking Opportunities...

Spread the word: SIGHealth is a group on 

2013 Renewal of AIS Membership and Re-designating SIGHealth Interest

Many colleagues renew their AIS membership during conference registration. Please be aware that when you renew your AIS membership, you must also re-designate your interest in SIGHealth. Currently, membership in SIGHealth is \$10 USD per year. Not sure if you have paid your SIGHealth membership? A current listing of SIGHealth members is available on the SIGHealth Web page [www.aissighealth.com](http://www.aissighealth.com).

August 2013... 19<sup>th</sup> Americas Conference on Information Systems (AMCIS)

Dates: August 15 – 17, 2013  
 Location: Chicago, Illinois  
 Registration: Regular registration through August 5 and onsite after



[More Details...](#)



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**October 2013... Conference on Health & Social Care Information Systems & Technology (HCist)**

Dates: October 23 – 25, 2013

Location: Lisbon, Portugal

Registration: Late registration after July



**Conference on Health and Social Care  
Information Systems and Technologies**

[More Details...](#)

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**December 2013... International Conference on Information Systems (ICIS)**

Dates: December 15 – 18, 2013

Location: Milan, Italy

Registration: Early registration by October 8<sup>th</sup>



[More Details...](#)

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**January 2014... Hawaiian International Conference on System Systems (HICSS)**

Dates: January 6 – 9, 2014

Location: Waikoloa, Hawaii

Registration: Early registration after September 2013



[More Details...](#)

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**Publication Opportunities...**

**CFP...Health Systems Journal**

Palgrave Macmillan and the OR Society have launched Health Systems, a new interdisciplinary journal. Health Systems will provide insights and perspectives to advance health systems knowledge in research and practice. ■

[More Details...](#)