ADEA Section on Dental Informatics
Annual Report

Submitted by Heiko Spallek, Secretary
Email address for questions hspallek@pitt.edu

Section Activities

1. At the ADEA 2013 Annual Session & Exhibition

At the 2013 Annual Session, the Informatics section sponsored (or co-sponsored) the following activities.

- Dental Informatics Members’ Forum

- ADEA TechExpo which included 22 high quality presentations spread over 2 days.

  Presented by the ADEA Sections on Dental Informatics, Oral Diagnosis/Oral Medicine, Periodontics, Cariology and Community and Preventive Dentistry
  Presenter(s): Thankam Thyvalikakath, D.M.D., M.D.S., M.S., University of Pittsburgh; Mark Wolff, D.D.S., Ph.D., New York University; John Featherstone, M.Sc., Ph.D., University of California, San Francisco; Gerardo Maupome, B.D.S., M.Sc., D.D.P.H. R.C.S. (E), Ph.D., Indiana University
  Risk-based diagnostic and therapeutic approaches are currently being developed and validated for many oral diseases. However, translating these developments into practice continues to be a significant challenge. Multiple factors impede their adoption and use, such as unfamiliarity of clinicians with risk-based diagnosis, the continuing focus on a reparative versus a preventive approach to treatment, and the difficulty of integrating risk-based algorithms with practice operations and workflow. As a result, many dental providers continue to concentrate on the clinically obvious that requires immediate intervention and forego the advantages that a systematic and predictive approach could bring to dental care. The Cariology and Dental Informatics Sections will host a panel of three speakers to present the risk-based management of caries and periodontal disease in their respective organizations. These talks include the current approaches to risk assessment and management, informatics solutions used, the challenges involved and how they were resolved.

- Meaningful Use of Certified Electronic Health Records in Dentistry
  Presented by the ADEA Section on Dental Informatics
  Presenter(s): Amit Acharya, B.D.S., M.S., Ph.D., Marshfield Clinic Research Foundation; Rachel Ramoni, D.M.D., Sc.D., M.Sc. and Elsbeth Kalenderian, D.D.S., MPH, Harvard School of Dental Medicine; Thankam Thyvalikakath, M.D.S., M.S., D.M.D., Ph.D., University of Pittsburgh
  A panel of four invited presenters will discuss various experiences related to the meaningful use of certified electronic health records (EHRs) in their respective schools or organizations. These talks will include workflow studies, gap analysis, dental informatics and information technology solutions used/planned, the lessons learnt, and the challenges involved as the dental schools and other dental organizations get ready to apply for the meaningful use incentive program.
Normalization of Cognitive Outcomes for Combined Competency Assessment
Presented by the ADEA Council of Faculties, the ADEA Section on Dental Informatics and the ADEA SIG on Teaching and Learning with Emerging Technology

Presenter(s): Todd Watkins, D.D.S., East Carolina University

Many educational programs require proof of knowledge, skills, and inter-disciplinary problem solving. It is difficult to assess these different educational outcomes longitudinally. There are only three types of cognitive outcomes instruments—didactic (tests), practical experiences (clinical and preclinical), and discussion (PBL and CBL). The presenter has developed a process for the constant and simultaneous analysis of performance from didactically-focused, skill-based, and problem-based environments. The integration of systems uses two basic extensible definition sets. The first is a hierarchical series of topic definitions for the educational discipline. These are defined as “microcompetency codes.” The second relates to a “relative value” of skill-based procedures as compared to an extensible time definition (T). This seminar will demonstrate that the use of microcompetencies and relative value units can be used to tag all cognitive outcome instruments for analysis against program competency definitions and for comparison with curriculum maps.

Teaching and Learning With Emerging Technologies and Informatics: Short Talks
Presented by the ADEA Sections on Dental Informatics and Educational Research, Development, and Curriculum, and ADEA SIGs on Teaching and Learning with Emerging Technology and Scholarship of Teaching and Learning

Presenter(s): Elise Eisenberg, D.D.S., M.A., New York University; John Killip, D.D.S., University of Missouri - Kansas City; Muhammad Walji, Ph.D., The University of Texas School of Dentistry at Houston; Linda Behar-Horenstein, M.A., Ph.D., University of Florida

Short Talks, an innovative approach for the Annual Session, will succinctly update members of the dental community with exciting developments and emerging issues, and will foster collaboration as we explore teaching and learning with emerging technology and informatics. Join us for this exciting exploration into the future of health care education. The Short Talks session will provide each speaker five minutes to present summaries of various topics concerning current best practices of teaching and learning at their respective organizations (time limits will be strictly enforced). The focus is on emerging technology and informatics and how we teach and how our students learn with new and emerging technologies, how we assess our teaching methodologies, how we insure that our faculty have appropriate development for teaching with technology, how we prepare for future technologies, and many more questions to be answered.

Two sessions were held that provided speakers up to 5 minutes to update the audience on their innovative projects. Session 1 featured 12 speakers, and session 2 featured 15 speakers. These sessions were co-sponsored by the 1) Dental Informatics Section, 2) Educational Research, Development, and Curriculum Section, 3) Scholarship of Teaching and Learning SIG, 4) Teaching and Learning with Emerging Technology SIG.

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Dr. Thomas J. Dwork</td>
<td>ADEA Seattle Meeting 2013 Short Talks</td>
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<tr>
<td>Dr Barry F.A. Quinn</td>
<td>Teaching Caries Removal with a Novel Haptic Device: hapTEL Project</td>
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<td>Karen R McPherson</td>
<td>Computer Grading for Dental Morphology</td>
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<tr>
<td>Penprapa S. Klinkhachorn, Jason Battin</td>
<td>Online Learning Modules, Scholarships in Education and Career Advancement</td>
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<td>Title</td>
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<tr>
<td>Powsiri Klinkhachorn</td>
<td>Using Student E-Portfolios to Assess Critical Thinking</td>
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<td>Donna Warren Morris</td>
<td>Supporting Change through Faculty Development</td>
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<tr>
<td>Linda Behar-Horenstein, Frank A. Catalanotto</td>
<td>Utilizing 6 Skype Lectures in One Year- Why it Works!</td>
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<td>W. Michael Mansfield</td>
<td>Prevalence and creative uses of computer-assisted instruction (CAI) tools to engage pre-clinical dental students to learn the biomedical (basic) sciences</td>
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<td>Sharon K. Lanning, Jeff Lodge</td>
<td>Integration of Informatics to Support Development of Competence to Providing Evidence-based Patient Care in a Predoctoral Dental School Curriculum</td>
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<tr>
<td>Gary F. Guest</td>
<td>Faculty Public Speaking Workshop: Enhancing Public Speaking Skills of Faculty Members Through Professional Speech Training</td>
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<tr>
<td>Ana Neumann</td>
<td>Using Technology and online teaching to advance the teaching of dental public health for undergraduate students Oral-Systemic Health Education for Non-Dental Healthcare Providers</td>
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<tr>
<td>Lola Giusti, Bruce Peltier, Terry Hoover</td>
<td>Development of Chairside Doctor-Patient Communication Skills through Case-based Video Simulation</td>
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<td>Dr. Robert Hasel, Dr. Sandra Farah-Francianese, Dr. Brent Fung</td>
<td>Interdisciplinary Collaborative Systems Approach To Pre-clinical Curriculum Delivery</td>
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### 2. Membership and Attendance

1. Total membership for the section/SIG as of past ADEA Annual Session & Exhibition: **788**

2. Total attendance at the past section/SIG Program and Members’ Forum: **21 Participants**

### Meeting Minutes

ADEA Section of Dental Informatics, Members Forum Meeting: March 17, 2013

Washington State Convention Center, Room 602

### Meeting Agenda

1. Introduction
2. Election of Councilor
3. Election of Secretary
4. Council of Sections Update
5. Announcements of DI Events
6. Project Updates from the floor (5-minutes each)

### 1. Introduction

The meeting was called to order at 7:15 am by Chair Dr. Amit Acharya, who introduced himself and the section’s officers:

Councilor – Dr. Muhammad Walji
Chair – Dr. Amit Acharya
Chair-Elect – Dr. Thankham P. Thyvalikakath
Secretary – Mr. David B. Rankin

Dr. Joan Kowolik, Chair-elect of the ADEA Council of Sections, addressed the members. She discussed that the Council of Sections has developed the first ever newsletter. Section members are encouraged to send information to her to be considered for inclusion into the newsletter. She emphasized that all new elected Section officers need to attend the New Members Orientation. The Council of Sections Board Members has developed Points of Interest to provide guidance for how to develop the each section’s Annual Report. This will not be used to evaluate the report this year. She said that some sections contributed money to the General Fund so that other sections that are not well funded can bring in and compensate speakers.

The Chair, Dr. Amit Acharya, asked for the section members present to introduce themselves to the group. 14 members provided introductions in a roundtable format which included their names and institution.

The Councilor, Dr. Muhammad Walji, opened the floor for section elections.

2. Election of Councilor
Dr. Elise Eisenberg, from NYU, had expressed interest in advance via email in being nominated for the office of Councilor for the Dental Informatics Section. There were no other nominations from the floor.

3. Election of Secretary
Dr. Heiko Spallek, from the University of Pittsburgh, had expressed interest in advance via email in being nominated for the office of Secretary of the Dental Informatics Section. There were no other nominations from the floor.

Election Results
Dr. Eisenberg and Dr. Spallek were elected to the offices of Councilor and Secretary unopposed.

4. Council of Sections Update
The Chair, Dr. Acharya, gave the group an update from the ADEA Council of Sections meeting that was held on March 16, 2013. He discussed the following items:

   a. Status of Review/Revisions of Annual Section and SIG Evaluation Process – new process and tools expected to be available in late Fall and be effective March 2014;
   b. Discussion around Section/SIG Program submission, acceptance, rejection and talks about Blinded review process;
   c. Fiscal Balance as of March 1, 2013:
      a. Dental Informatics Section - $2,769.07
      b. Total $81,612.94
   d. Electing ADEA COS Member-at-Large during the COS Caucus
   e. ADEA COS Program Fund: Opens March 15, 2013. Application Deadline May 13, 2013, by 5:00 pm;

The Chair, Dr. Acharya, told the membership that although there were a lot of Dental Informatics-related program submissions, there were limited slots in the program.

5. Announcements of DI Events
The Chair, Dr. Acharya, gave the group an update regarding upcoming Dental Informatics-related events during the ADEA 2013 annual conference.
6. **Project Updates from the floor (5-minutes each)**

The Chair, Dr. Acharya, opened the floor to the section’s members for individual and institution Dental Informatics-related project updates in a roundtable format. There was a spirited update from the members on a variety of Dental Informatics-related topics and technologies.

7. **Adjourn**

The meeting was adjourned by the Chair, Dr. Acharya, at 8:15 am.