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DMICE Tracks

From the Chair

The Department of Medical Informatics & Clinical Epidemiology (DMICE) continues to thrive despite uncertain times. This past



year has been transitional for us, as the third round of five-year funding for the Evidence-Based Practice Center came to a close, and

the large-scale federal support for our various informatics educational programs started to wind down. External to the department, we have also had to deal with uncertainty, both with declining federal funding for biomedical research (exacerbated by the sequester) and continued budgetary challenges at Oregon Health & Science University.

But as always, DMICE manages to move forward. The Evidence-based Practice Center has been renewed in the fourth five-year round of funding and has received a steady stream of new systematic review contracts. At the same time, research grants and enrollment in the graduate program continue to be strong for the informatics side of the department as well.

However, this does not mean

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The Informatics Discovery Lab leadership team includes: row one (left to right): Robert Schuff, Aaron Cohen, David Dorr; row two: Judith Logan, Deborah Woodcock, Shannon McWeeney, William Hersh.

Informatics Discovery Lab Focuses on Building Partnerships with Industry

The Informatics Discovery Lab (IDL) has launched. With a goal of building partnerships between the Department of Medical Informatics & Clinical Epidemiology (DMICE) and industry, the IDL is focused on driving innovation and deployment of informatics solutions to problems in healthcare and research.

Not only will the IDL bring fresh perspectives to the work of DMICE researchers and educators, these partnerships will create new educational and employment opportunities for students and external partners, identify research opportunities for faculty, and give the department the ability to

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Largest Number of Students in Program History Receive Biomedical Informatics Degrees in 2012-13

As the OHSU School of Medicine held its commencement ceremony on Monday, June 3, 2013 in Portland, the Department of Medical Informatics & Clinical Epidemiology celebrated a record number of graduates in its programs for the 2012-13 academic year – 108. With 514 graduates in the School of Medicine this year, DMICE students comprised 21% of the total graduates, exceeded only by the 118 students receiving MD degrees.

Three students received a doctor of philosophy degree (listed with their dissertation topic):

Kyle H. Ambert, Corvallis, OR
Dissertation: *Text-mining tools for optimizing community database curation workflows in neuroscience*

David L. Gibbs, Loveland, CO
Dissertation: *Integrated signatures of disease using network methods*

James Arthur McKanna, Nashville, TN
Dissertation: *Understanding divided attention and its relation to aging and cognitive decline through unobtrusive continuous measures*

Five students received a master of science in biomedical informatics (listed with their thesis topic):

Priya Bhatt, Portland, OR
Thesis: *Assessing multivariate analysis of GWAS for identification of genetic variants in Alzheimer's Disease*

Damian A. Borbolla, Portland, OR
Thesis: *Initial evaluation of a continuing medical education system integrated into an Electronic Health Record in an academic hospital in Argentina*

Chantel Chivon McCoy, Tigard, OR
Thesis: *Identification of miRNA-targeted cellular pathways in Flavivirus-infected cells*

Joseph Andrew Reistetter, Gurnee, IL
Thesis: *Differential expression of modules by mycobacterium tuberculosis infecting human dendritic cells and macrophages*

Vanina Lorena Taliencio, Portland, OR
Thesis: *Factors associated with physicians' clinical research productivity: Can informatics resources improve the capacity for research?*

Twenty-eight students received a master of biomedical informatics (listed with their capstone or internship project):

Ethan Allen Roger Bachrach, West Richland, WA
Capstone: *Evaluation of an eligible hospital's Electronic Health Record build and implementation, with respect to stage 2 meaningful use requirements*

James M. Bailey, Clermont, GA
Capstone: *Development of a business intelligence tool for the extraction, analysis, display, and utilization of early warning system alerts*

Sary O. Beidas, Augusta, GA
Capstone: *What are residents' information seeking habits during non-work hours?*

Thomas A. Blehl, Orlando, FL
Internship: *A journey in Healthcare Informatics: A bumpy road to a moving target*

Michelle Lynn Carter, Portland, OR
Internship: *Clinical experience for the technically-minded: An internship with the Department of Medical Informatics at NW Kaiser Permanente*

David H. Choi, Thousand Oaks, CA

Department Hosts Concussion Guidelines Meeting in June

On June 10-11, 2013, DMICE hosted investigators and funders for the Concussion Guidelines project for a two-day work meeting, including presentation of results to-date and articulation of future projects. The Concussion Guidelines project is a collaboration among the Brain Trauma Foundation, OHSU, the Department of Defense, and the Centers for Disease Control and Prevention. The purpose of the project is to develop an evidence-based definition for concussion and to derive diagnostic criteria and prognostic indicators. The Brain Trauma Foundation's Center for Guidelines Management, housed in DMICE and directed by Nancy Carney, Ph.D., research associate

professor, was awarded a three-year contract to perform the work.

In addition to Dr. Carney, DMICE speakers included Annette Totten, Ph.D., research assistant professor, Hugo du Coudray, Ph.D., professor, Roger Chou, M.D., associate professor and Evidence-based Practice Center director, and William Hersh, M.D., professor and chair.

One outcome of the meeting was a new contract to perform the first task of the "Immediate Action" mandate of the National Research Action Plan response to the Executive Order (NRAP 2013): to develop a clinically meaningful classification system of traumatic brain injury to replace the current mild/moderate/severe nomenclature. ■

Internship: Exploring the OHM problem: Evaluating Legacy Employee Health's software solution

Kit R. Crafton, Cary, NC

Internship: Value attribution and the decision support system

Anthony Michael Dunnigan, Phoenix, AZ

Capstone: Seeking higher ground: A comprehensive review of literature examining utilization of the Electronic Health Record in primary care to optimize workflow and patient care

David Keith English, Oakland, CA

Capstone: Evaluation of an emergency department system replacement project

Joseph Phillip Fazio, III, Portland, OR

Capstone: Pharmacy informatics certificate program curriculum development

Justin Barrows Fletcher, Portland, OR

Capstone: An evaluation of the skills requirements of health information and privacy executives

Eric Karl Gebhardt, La Center, WA

Capstone: The patient identification process as it relates to Electronic Health Record safety: A literature review

Timothy Peter Gray, Portland, OR

Capstone: Upgrading to Epic 10 at Oregon Health & Science University: Monitoring and assessing the Electronic Health Record upgrade process

David Jonathan Gutglass, San Diego, CA

Capstone: Can a clinical decision support tool increase adherence to a practice guideline in children presenting to the emergency department with minor head injury?

Michael E. Kordek, Mountain Top, PA

Capstone: Alert fatigue by other names: Review of contributing fields regarding the "cry wolf" effect

Yetunde Olabisi Laniran, Portland, OR

Internship: Electronic Health Record for employee health: Challenges and idiosyncrasies



Front row (left to right): David Gutglass, Marianne Outzen, Kathleen Engstrom, Michelle Carter, Mary Ellen Mattson, Cora Bosshart, Lek Taylor, Bill Hersh, Seema Mohindra, Isolde Knaap, Charmydevine Beane, Deb Woodcock, Priya Bhatt
Back row (left to right): David Gibbs, Kristen Sandersen, Rex Williamson, Justin Fletcher, Karen Eden, Shannon McWeeney, Aaron Cohen, Eric Gebhardt, Kyle Ambert, Paul Gorman, James "Zephy" McKanna, Kelly Gossen, Arthur Knepper, Matthew Pharr (behind Deb Woodcock), Joan Rote, Judi Hofman.

Lim SongCheng, Darren, Singapore

Capstone: Physician perceptions of CPOE order set types

Mary Ellen Mattson, Lino Lakes, MN

Internship: Bringing awareness of patient care one floor at a time: Patient Dashboard

Seema Mohindra, Salem, OR

Internship: Implementing Epic-ACE at West Valley Hospital

Marianne Outzen, Davis, CA

Internship: Automated quality reporting: Clinical quality measures and meaningful use

Michael Anderson Padula, Philadelphia, PA

Capstone: Development of the HL7 neonatology functional profile for EHR systems

Diane Gahan Petersen, Homer, AK

Internship: A tale of two internships: diverse opportunities in Informatics

Matthew Thomas Pharr, Beaverton, OR

Internship: My Experience with Impact Advisors

Joan Murray Rote, Medford, OR

Internship: Effective EpicCare ambulatory training for provider proficiency

Paul Z. Seville, Los Angeles, CA

Internship: mHealth roadmap for wellness and chronic disease

Minakshi Tikoo, West Simsbury, CT

Capstone: A meta analysis codebook to assess the relationship between EHR implementation and health outcomes

Yves A. Vimegnon, Portland, OR

Capstone: Usability of a medication adherence application on a smartphone

Rex Moffett Williamson, Longview, TX

Capstone: Preparation of a genomic dataset for an investigative project: Discovery of sporadic Alzheimer's Disease implicated gene variants through analysis of epistasis within pathways

Seventy-two students receive a graduate certificate in biomedical informatics, a 24-credit-hour program to provide knowledge and skills in the application of information technology in health care:

Faculty Focus: Joanne Valerius, M.P.H., R.H.I.A.

It all started with an issue of *Reader's Digest* years ago. That's where the father of assistant professor Joanne Valerius, M.P.H., R.H.I.A., first heard about the new field of health information management (HIM). At the same time Valerius, who was working as a candy striper in a local hospital, found a flyer outside their HIM department and decided to go into the field, then also known as medical records.

Fast forward to 2013 where Valerius is director of the health information management program, one of the tracks in the DMICE educational program at OHSU.

From her start as a medical record technician at North Memorial Hospital and then as a manager at the University of Minnesota Hospital, Valerius moved to the College of St. Catherine in Minneapolis-St. Paul, where she chaired the Information Management Department. Along the way she got her M.P.H. in interdisciplinary studies and is currently finishing her dissertation at the University of Minnesota for a doctorate in work, family, and community education.

Valerius has created and developed HIM programs at the certificate, bachelor, and master's levels. Arriving at OHSU in 2007, Valerius developed the DMICE HIM curriculum and spearheaded the application for accreditation by the Commission on the Accreditation of Health Informatics and Information Management (CAHIIM), which was granted in 2009 for the certificate program and 2012 for the master's program.

Today students interested in health information management have

the choice of three degree programs at OHSU: graduate certificate, master of biomedical informatics, or master of science. Students completing the program are eligible to sit for the Registered Health Information Administrator (R.H.I.A.) credential.

Valerius regularly teaches the HIM courses on Managing Information Governance; Managing Clinical Classification and Reimbursement Systems; Applied Legal and Ethical Issues in Health Information Practice; and Managing

"We have reduced duplication in HIM specific courses with general biomedical informatics courses."

*– Joanne Valerius,
M.P.H., R.H.I.A.*

Professional Practice and Practicum. In the DMICE program, she has also taught Organizational Behavior and Management; Healthcare Quality; and Ethical, Legal and Social Issues in Biomedical Informatics.

"I enjoy collaborating with many DMICE faculty members," Valerius said. "We have reduced duplication in HIM specific courses with general biomedical informatics courses." Valerius also enjoys working with students a great deal as well as working with the DMICE administrative staff "because of their brilliance and great support of faculty and students."

Some of Valerius' research interests include a qualitative study of the experiences of health information managers with more than 20 years of experience, who have managed paper-



Joanne Valerius, M.P.H., R.H.I.A.

based medical record system and now manage electronic health records. She has also participated in qualitative research with the Kids and Cops program, corporate company, and healthcare, where diversity issues have been the primary obstacles. Valerius is also interested in burnout in faculty in distance education programs.

On the international front, Valerius worked with the Korean Medical Hospital in Ethiopia in 2012 and has spoken at several international conferences. In October 2013, she will travel to Beijing to attend the World Health Organization meeting, where she is a member of the WHO Family of International Classifications Network functioning and disability reference group.

What lies ahead for health information management? The biggest change in HIM that Valerius sees on the horizon is teaching higher level skills in analyzing data, and DMICE is preparing for that challenge. ■

Evidence-based Practice Center Conducts Reviews of 10 Healthcare Topics for Agency for Healthcare Research and Quality

The Pacific Northwest Evidence-based Practice Center (EPC), based in the Department of Medical Informatics & Clinical Epidemiology, has received ten task orders from the Agency for Healthcare Research and Quality since the beginning of 2013.

“These awards are an exciting opportunity as the EPC moves forward in this fourth cycle and underscore the strengths of the strong partnership between OHSU, the University of Washington’s CHASE Alliance, and Spectrum Research, Inc.,” said Roger Chou, M.D., associate professor and EPC director, who is leading five of the ten projects.

Led by Dr. Chou, the systematic review on imaging for hepatocellular carcinoma (HCC) will look imaging techniques available to identify the presence of lesions, diagnose HCC, and determine staging, all critical to making informed treatment decisions. OHSU will partner with the University of Washington (UW) CHASE Alliance for this review, which runs from March 15, 2013 to March 14, 2014.

A task order awarded in May focuses on the effectiveness and risks of long-term opioid treatment of chronic pain. The project will run from May 30, 2013-November 19, 2014, with Dr. Chou as principal investigator, and includes a topic refinement project as well as a systematic review. As one of the EPC partners, the UW CHASE Alliance will work with OHSU on this topic. Richard Deyo, M.D., M.P.H., Kaiser-Permanente Endowed Professor of Evidence-based Medicine in the OHSU Department of Family, is a co-investigator.

EPC investigators on a third task order will conduct a topic



The leadership of the Pacific Northwest Evidence-based Practice Center includes Elaine Graham, M.L.S., program manager, Roger Chou, M.D., director, and Marian McDonagh, Pharm.D., associate director.

refinement and systematic review on diagnosis and treatment of myalgic encephalomyelitis/chronic fatigue syndrome, a condition that affects an estimated 800,000 people in the United States. M.E. Beth Smith, D.O., assistant professor of medicine, leads the project, which runs from June 7, 2013-December 6, 2014. Co-investigators at OHSU include Marian McDonagh, Pharm.D., associate professor and EPC associate director, Heidi D. Nelson, M.D., M.P.H., research professor, Annette Totten, Ph.D., research assistant professor, and Elizabeth Haney, M.D., associate professor of medicine.

Another project led by Dr. Chou, a technical brief, will focus on imaging techniques for metastatic breast cancer and provide an overview of key issue related to these medical technologies. This task order runs from August 12, 2013-March 12, 2014, with OHSU working with the UW CHASE Alliance.

With a rapid increase in the use of spinal injection therapies in the past decade, the EPC will conduct a topic refinement, with an option for a systematic review, on pain management injection therapies for low back pain. With the UW CHASE Alliance and Spectrum Research, Inc. as partners, the project will be led by Dr. Chou and runs from August 21, 2013-February 20, 2014.

A sixth task order from AHRQ will focus on bladder cancer, the fourth most commonly diagnosed cancer in men and the tenth most commonly diagnosed cancer in women in the United States. The project runs from September 9, 2013-March 7, 2014 for topic refinement, with an option for two systematic reviews. Led by Dr. Chou, the project also involves the UW CHASE Alliance, with OHSU co-investigators David Buckley, M.D., M.P.H., research assistant professor of family medicine, and Shelley Selph, M.D., EPC post-doctoral fellow.

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DMICE Celebrates 10th Anniversary as a Department

On April 1, 2013, in conjunction with the OHSU School of Medicine 125th anniversary lecture series, the Department of Medical Informatics & Clinical Epidemiology celebrated a decade of excellence, its tenth anniversary as a department.

While biomedical informatics research first came to OHSU in 1989 with the start of the Biomedical Information Communication Center, the research and educational programs came together as a freestanding division within the School of Medicine in 1997, the Division of Biomedical Informatics & Outcomes Research. In 2003, the unit became a full-fledged department, aka DMICE.

As part of the celebration, seven faculty participated in an afternoon panel discussing how their work and contributions of the department have impacted OHSU and health care. Professor and chair William Hersh, M.D., facilitated the panel, which featured:

Joan Ash, Ph.D., M.L.S., M.B.A.,
professor and vice chair

Roger Chou, M.D., associate professor
and Evidence-based Practice
Center director

Aaron Cohen, M.D., M.S., associate
professor

David Dorr, M.D., M.S., associate
professor and vice chair

Karen Eden, Ph.D., associate
professor and associate director for
Ph.D. and post-doctoral programs

Shannon McWeeney, Ph.D.,
professor and head, Division of
Bioinformatics and Computational
Biology

Heidi Nelson, M.D., M.P.H., research
professor and vice chair

Following a lecture by Eric Dishman, general manager, Intel Health Strategy & Solutions, DMICE sponsored a poster and demonstration session in the OHSU Old Library. ■



Adriel Gorsuch demonstrates an electronic health record simulation to guest speaker Eric Dishman of Intel, as DMICE chair William Hersh, M.D., looks on.



David Dorr, M.D., M.S., discusses his research as part of the faculty panel on DMICE research and contributions to OHSU and health care.



DMICE chair William Hersh, M.D., offers a toast to faculty and staff in honor of the 10th anniversary of the Department of Medical Informatics & Clinical Epidemiology.

Posters

- EPC Reports for the US Preventive Services Task Force, *Christina Bougatsos*
- A Collaborative Data Visualization Tool for Evidence-Based Guideline Development, *Steve Bedrick*
- Body Mass Index and Breast Cancer Risk of Women in Their 40s: Systematic Review and Meta-analysis, *Amy Cantor*
- Evaluation of Electronic Health Record Implementation in Ophthalmology: Impact on Patient Volume, Provider Time and Clinical Documentation, *Michael Chiang*
- A Large Scale Analysis of the Reasons Given for Excluding Articles that are Retrieved by Literature Search During Systematic Review, *Aaron Cohen and Tracy Edinger*
- Understanding Safety Events in Pre-hospital Emergency Medical Services for Children, *Erika Cottrell*
- Predictors of Hospital TOLAC Policies in California, *Erika Cottrell*
- Evidence-based Decision Aids in Women's Health Improve the Decision-making Process, *Karen Eden*
- Skills Requirements of Health Information Security and Privacy Executives, *Justin Fletcher*
- Pacific Northwest Evidence-based Practice Center, *Elaine Graham and Ngoc Wasson*
- Biomedical Informatics Shared Resource, *Michelle Hribar*
- The Importance of Quality Measures in GI Specialty Practices: A Qualitative Study, *Judy Logan*
- Drug Effectiveness Review Project, *Marian McDonagh and Ngoc Wasson*
- Using EHR Simulations to Improve Patient Safety, *Adriel Gorsuch and Vishnu Mohan*
- How Results of BRCA Mutation Testing Predict Risks for Breast or Ovarian Cancer, *Heidi Nelson*
- Benefits and Harms of Medications to Reduce Risk for Primary Breast Cancer, *Heidi Nelson*
- American Pain Society, *Miranda Pappas*
- The Department of Medical Informatics and Clinical Epidemiology, *Kathryn Pyle*
- Systematic Review of the Benefits and Harms of Metformin to Treat Obesity in Nondiabetic Children, *Shelley Selph*
- Public Reporting as a Quality Improvement Strategy, *Annette Totten*
- A Biomedical Informatics Success Story: University-based Training for Workforce Development Funded by the Office of the National Coordinator, *Joanne Valerius*
- Multivariate Analysis of GWAS for Identification of Genetic Variants in Endophenotypes Related to Alzheimer's Disease, *Beth Wilmot*
- Making Sense of Medical Research Identify, Evaluating, and Synthesizing Effective Health Care Research, *Ngoc Wasson*
- Comparative Effectiveness Research Center, *Ngoc Wasson*

Demonstrations

- Breast Cancer Decision Aid, *Karen Eden*
- Cognitive Health Coaching Project: Coaching Platform and Automated Messaging System, *Jennifer Marcoe*
- Cognitive Health Coaching Project: Models of Divided Attention, *James "Zephy" McKanna*
- Cognitive Health Coaching Project: Memory Using Adaptive Computer Games, *Krystal Klein*
- Mobile Phone Medication Reminder/Education System, *Yves Vimignon*
- HitWalker: Variant Prioritization for Personalized Functional Cancer Genomics, *Shannon McWeeney*
- Using EHR Simulations to Improve Patient Safety, *Vishnu Mohan*
- Graphlet Counter, *Kemal Sonmez*
- Making Sense of Medical Research: Identifying, Evaluating, and Synthesizing Effective Health Care Research, *Ngoc Wasson*

Faculty/Staff Update

Awards and achievements

Judith Logan, M.D., M.S. '98, was promoted to professor of medical informatics & clinical epidemiology, as of July 1, 2013.

For the third time in the three years of the award, **William Hersh, M.D.**, professor and chair, was selected as one of the Top 25 Clinical Informaticists of the year by *Modern Healthcare*. The program recognizes medical professionals who excel at using patient-care data to improve both the clinical and financial performance of their healthcare organizations.

Paul Gorman, M.D., associate professor, was appointed Chair of the Curriculum Committee in the OHSU School of Medicine. He is also one of 23 faculty on the Curriculum Transformation team.

Michael Chiang, M.D., professor, is assistant editor of the *Journal of the American Medical Informatics Association*, where he manages the student editorial board. Chiang has also been named to the editorial board of *EyeNet Magazine*.

The Emergency Medicine Foundation named professor **Robert Lowe, M.D., M.P.H.**, as one of 12 "EMF Trailblazers" in emergency medicine research over the past 40 years.

Melissa Haendel, Ph.D., assistant professor, has been added to the advisory board for The Reproducibility Initiative, which aims to help scientists validate their research findings by providing a mechanism for blind, independent replication by experts.

Grants

Jayashree Kalpathy-Cramer, Ph.D., M.S., adjunct assistant professor, and professor **Michael Chiang, M.D.**, are principal

investigators of a two-year, R21 grant funded by the National Eye Institute, Automated Classification of Retinopathy of Prematurity using Machine Learning.

Mark Helfand, M.D., M.P.H., M.S., professor, is principal investigator of a VA-funded project to conduct a feasibility study of VA patient narratives. Professor **Joan Ash, Ph.D.**, is serving as principal investigator of the OHSU part of the project.

Vishnu Mohan, M.D., M.B.I. '09, assistant professor, is co-investigator on a three-year grant from the Association of American Medical Colleges and The Patrick and Catherine Weldon Donaghue Medical Research Foundation titled "Electronic Health Record Simulation to Improve Communication and Reduce Errors in the ICU." Dr Mohan will develop an EHR-centered ICU rounding simulation and determine how to optimize interprofessional rounds to improve error recognition, foster communication, and enhance patient safety.

Presentations and posters

Professor and chair **William Hersh, M.D.**, gave presentations throughout the nation and across the globe over the past year.

Finding the Future Workforce to Support Data-Driven Healthcare, AAMC Academic Health Center IT Leaders Forum, 2012 CHIME Fall CIO Forum, Palm Springs, CA, October 16, 2012.

From Implementation to Analytics: The Future Work of Informatics, VII Jornadas Universitarias de Sistemas de Información en Salud, Hospital Italiano Department of Health Informatics, Buenos Aires, Argentina, November 28, 2012.

Opportunities for Collaboration Between Biomedical Informatics and Basic, Clinical, and Translational Sciences, OHSU Knight Cancer Research/Translational Meeting, Portland, OR, December 14, 2012.

Global Challenges in Biomedical Informatics: Data-Rich, Information-Driven Future of Healthcare, Monthly Academic Session with Biomedical Informatics Department Faculty, Facultad de Medicina, Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico, March 14, 2013.

Teaching Biomedical and Health Informatics: Current Concepts, Jornadas de Educación Médica 2013, e-Educación en Ciencias de la Salud: Evidencia, Teoría y Práctica, Facultad de Medicina, Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico, March 15, 2013.

Update on Biomedical and Health Informatics from the US Perspective, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, March 28, 2013.

The Data-Rich, Information-Driven Future of Healthcare, Intersystems Corp. Healthcare Leadership Conference, Orlando, FL, April 9, 2013, and also at IEEE Oregon Computer Society and IEEE Oregon Engineering in Medicine and Biology Chapter, Beaverton, OR, April 23, 2013.

Informatics is Not Just for Clinicians: Opportunities for a Future in Informatics, OHSU Information Technology Group Meet the Expert Session, Portland, OR, April 19, 2013.

Caveats and Recommendations for Use of Operational Electronic Health Record Data for Research and Other Purposes, Biomedical Informatics Grand Rounds, Dartmouth-Hitchcock Medical Center Informatics Program, Hanover, NH, May 3, 2013, and also at International Conference on Big Data and Analytics in Healthcare Conference, Singapore, July 10, 2013.

Hersh also participated as a panelist six times in the past year.

Workforce/eSkills – US and EU Approaches to Health IT Workforce and Health, Fall 2012 Transatlantic Health IT/eHealth Cooperation Symposium, Boston, MA, October 24, 2012.

Late Breaking Session - Update on the Subspecialty Certification in Clinical Informatics, AMIA Annual Symposium 2012, Chicago, IL, November 5, 2012 (Panelist, Concerns That Must Be Addressed for Building Capacity of the Clinical Informatics Subspecialty).

Health IT Training Needs for the Future, 2012 ONC Annual Meeting – Workforce Program Day, Washington, DC, December 11, 2012.

Informatics Practica and Internships – Definitions, Value Proposition, Best Practices, AMIA Academic Forum, Nashville, TN, May 22, 2013 (Panelist, Informatics Practicums and Internships – Experience of OHSU).

The AMIA 10×10 (“Ten by Ten”) Program: An International Approach to Building Informatics Capacity, Medinfo 2013, Copenhagen, Denmark, August 21, 2013.

The New Clinical Informatics Medical Subspecialty in the United States, Medinfo 2013, Copenhagen, Denmark, August 21, 2013.

Professor **Judith Logan, M.D., M.S.** presented a paper on behalf of first author Vanina Taliencio, M.D., M.S. ’13 at Medinfo 2013 in Copenhagen, Denmark August 22, 2013. The paper was entitled Developing a Survey to Assess Factors that Contribute to Physician Involvement in Clinical Research. Adjunct assistant professor **Jayashree Kalpathy-Cramer, Ph.D., M.D.**, was also a co-author.

This past year **Michael Chiang, M.D.**, professor, was an invited speaker about telemedicine, computer-based image analysis, and electronic health records at conferences in Italy (9/2012), Mexico (1/2013), Boston, MA (4/2013), Washington, D.C. (4/2013), San Diego, CA (5/2013), Hawaii (6/2013), and Brazil (8/2013).

Roger Chou, M.D., associate professor, was interviewed on the OPB radio program Think Out Loud on November 26, 2012, on Making HIV Tests Routine. Chou led the evidence review used by the US Preventive

Services Task Force to make a Grade A recommendation for screening persons ages 15-65 for HIV infection.

Melissa Handel, Ph.D., assistant professor, presented Integrated Semantic Framework: Launching the Next Generation at VIVO 2013 in St. Louis, MO August 14-16, 2013.

At the Oregon Health Information Management Association meeting on May 16, 2013, in Portland, **Justin Fletcher, Ph.D.**, gave a talk, Is Medical Privacy and Security an Illusion?

Publications

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Faculty/Staff Update

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New DMICE Faculty and Staff

DMICE would like to welcome new primary, joint, and affiliate faculty members **Arie Baratt, Ph.D.** (primary); **Erika Cottrell, Ph.D.** (joint); **Jennifer Devoe, M.D.** (joint); **Hugo du Coudray, Ph.D.** (primary); **Eric Hanson, M.D.** (affiliate); **Izhak Shafran, Ph.D.** (primary); **Xubo Song, Ph.D.** (primary); **Guanming Wu, Ph.D.** (primary); and **Jamie Eastman, Ph.D.** (joint) to the department. Faculty members with joint appointments hold primary appointments in other OHSU or VA departments but they also contribute significantly to DMICE activities.

Joint, adjunct, and affiliate faculty members who have had longstand-

ing appointments in DMICE have just recently been asked to complete documentation so that we can put into place a formal process for tracking external faculty contributions. Thanks to those who have completed the paperwork; we urge those who received Dr. William Hersh's invitation to respond so that we can continue to update our files and include you in DMICE functions.

In addition to new faculty, several new staff joined DMICE recently. **Monica Fraenkel** is a research assistant 2 working for the Evidence-based Practice Center. **Deborah Woodcock, M.B.A.**, is the project manager for the Informatics Discovery Lab. ■

Faculty/Staff Update

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Other News

William Hersh, M.D., professor and chair, John Hurdle, M.D., Ph.D., of the University of Utah School of Medicine, and **Justin Fletcher, Ph.D.**, assistant professor, conducted an internal research project, Assessing the Public's Attitude on Clinical Data Privacy Issues. Using the questionnaire, *Donating Medical Record Information*, members of the OHSU population were surveyed to determine their attitudes about clinical data privacy. TeSha English, M.D., anesthesiology resident (PGY-3), was the drawing winner of an iPad Mini for those who participated in the survey. ■

Student/Alumni News

Awards and achievements

MD/PhD student Julie Doberne is Student Advisor for Surgery College, OHSU School of Medicine, and is serving this year as student representative to the Biomedical Informatics Curriculum Committee.

Doberne also received the Doernbecher Children's Hospital Foundation Pediatric Clerkship Award.

Meryl Bloomrosen, M.B.I. student, has been appointed to the Editorial Board of the journal *Applied Clinical Informatics*.

Paul DeMuro, J.D. M.B.A., **postdoctoral fellow**, has been named by Best Lawyers as Healthcare Lawyer of the Year for 2014 for Portland, OR.

DeMuro has been named Vice-Chair, International Life Sciences and Health Law Committee of the Section of International Law of the American Bar Association.

DeMuro is also a member of the *Journal of the American Medical Informatics Association (JAMIA)*, Student Editorial Board, and Chair, Subcommittee on the Endowment Fund of the AMIA Finance Committee.

Rhonda Luetkenhaus, B.S.R.T., certificate '13, passed the new Certified Associate in Health Information and Management Systems (CAHI-IMS) certification offered by HiMSS on July 27, 2013. The two-hour test covered topics on healthcare and technology environment; systems analysis, design, selection, implementation, support, maintenance, testing, and evaluation; privacy, and security; and administration leadership and management.

Michael R. Berman, M.D., F.A.C.O.G., M.B.I. student, has become the medical director of the Labor and Delivery Unit and associate chairman for quality and patient safety, Department of Obstetrics

and Gynecology, Beth Israel Medical Center in New York City.

Meryl Bloomrosen, M.B.A., R.H.I.A., F.A.H.I.M.A., M.B.I. student, has been appointed vice president of the American Health Information Management Association (AHIMA), the organization representing more than 67,000 health information management professionals.

Jobs/career changes/promotions

The University of North Carolina Health Care System in Chapel Hill, N.C., has appointed **Donald C. Spencer, M.D., M.B.A., certificate '10**, to the role of chief medical informatics officer. Spencer will play a role in the enterprise system selection process and will be responsible for supporting the development of the chosen clinical information system to improve the delivery of patient care.

Aaron Neinstein, M.D., certificate student, is now assistant clinical professor of medicine and assistant medical director of informatics at University of California, San Francisco.

Ed VanBaak, M.B.I. '09, is now a senior implementation engineer with Caradigm, while continuing diabetes research with the University of Connecticut's Family Medicine Department.

Michelle Smerek, certificate '13, has taken a position as a research informaticist in the Clinical Research Informatics group at the Duke Clinical Research Institute.

Margaret Henderson, M.L.I.S., A.H.I.P., certificate '12, has become the first director of research data management for VCU Libraries, working with all the schools and programs at Virginia Commonwealth University.

Cherbon VanEtten, '09 M.B.I., recently took a new position, director of education, at Health Catalyst, a healthcare data warehousing and analytics software company located in Salt Lake City, UT.

Justin Fossum, R.H.I.A., cer-

tificate '10, was hired by Providence Health & Services as an Epic credentialed ambulatory trainer.

Presentations and posters

Margaret Henderson, M.L.I.S., A.H.I.P., certificate '12, presented a paper, Searching Patient Data: A Role for Librarians in the Improvement of Health Care, at the 2013 Medical Library Association Annual Meeting, May 7, 2013, in Boston, MA.

David Gibbs, Ph.D. '12, presented Mind the Gap—Strategies for Integrating Proteomic Data for the Mass Spectrometry Special Interest Group at the 2013 International Society for Computation Biology conference in Berlin, Germany July 19 - 23, 2013.

Paul DeMuro, J.D., M.B.A., postdoctoral fellow, gave several presentations recently: co-presenter, Social Media for More Patient-Cost Effective Healthcare Delivery, MedInfo 2013, The 14th World Congress on Medical and Health Informatics, Copenhagen, Denmark, August 22, 2013.

Using Technology to Improve Quality and Lower Hospital Costs of Care, Los Angeles Regional Hospital Symposium, Los Angeles, CA, June 10, 2013.

Co-presenter, Competitive and Efficient Physician Organizations and Biomedical Informatics and Accountable Care Under Health Reform, 2013.

California Society of Healthcare Attorneys Meeting and Spring Seminar, Newport Beach, CA, April 13, 2013.

Co-presenter, Clinical Integration, Health Informatics and Quality of Care, American Health Lawyers Association Webinar, April 4, 2013.

M.D./Ph.D. student Julie Doberne presented a four-minute mic talk at the National Library of Medicine Fellows Meeting in Salt Lake City, UT in June 2013.

Publications

Julie Doberne, M.D./Ph.D. stu-

dent, was first author of: **Doberne J, Diggs B, Tibayan F, Slater M, Chien C, Gelow J, Mudd J, Song H.** Impact of ventricular assist device implantation on clinical and economic outcomes of heart transplantation in the United States from 2003-2007. *World J Cardiovasc Surg.* 2013 Sept;3(5).

Aaron Neinstein, M.D., certificate student, had a recent publication: **Neinstein, AB.** From “pull” to “push”: A transformation in medicine. Comment on “participatory surveillance of hypoglycemia and harms in an online social network”. *JAMA Internal Medicine.* 2013; 173(5): 352-353.

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DeMuro also had several commentaries on *The Lund Report*, a news site about the healthcare industry in Oregon: A healthcare odyssey without electronic health records, December 20, 2012; What interoperable EHRs might have done to improve the patient care experience, January 30, 2013; breaking down healthcare's silos, March 16, 2013; Is it R.I.P. for solo and small physician practices? April 24, 2013; Hospital-to-hospital clinical integration programs represent good alternative, June 4, 2013; and Befuddled: health reform-where do all the delays leave the little guy, July 11, 2013.

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Twelve Undergraduates Work as Summer Interns During Seventh Year of DMICE Program

Twelve college students spent the summer of 2013 working with DMICE faculty on biomedical informatics research projects. Now in its seventh year, the DMICE summer internship program receives partial funding from a grant from the National Library of Medicine (NLM), which provides support for eight students each summer.

A student from Chapman University, Colleen Tercek worked with Joan Ash, Ph.D., professor and vice chair. Tercek worked on a qualitative research project on making electronic health records safer.

Professor Michael Chiang, M.D., had two interns. William Wang, a student at Marquette University, worked on a computational analysis of retinopathy of prematurity. Reed College student Maha Pasha looked at electronic health record efficiency and clinical workflow in ophthalmology.

Geoffrey Rosen and Kathryn Cartwright both worked with David Dorr, M.D., M.S., associate professor and vice chair. Rosen, who is studying at Emory University, worked on natural language processing for biomedical test results. Cartwright, from Oregon State University, focused on high value elements.

Working with Karen Eden, Ph.D., associate professor, on a mammography decision aid were Katie Abrams, from Portland State University, and Lindsey Watson, from Washington State University Vancouver. Abrams focused on coding while Watson assisted with cognitive interviewing.

Three students worked with professor Judy Logan, M.D., M.S. '98. Connor Bohan, from the University of Rochester, worked on a web-based tool for the storage and search of projects and publications while Portland State University student Nasim

Sanati conducted a project entitled "from work flow to business rules." Merliee Avery, a student at Case Western Reserve University, worked on deduplication of patients in the CORI 3 database.

Oregon State University student Song Ge conducted research on improving patient safety through information, working for Vishnu Mohan, M.D., M.B.I. '09, assistant professor, while Marc Leef, from the

University of Oregon, conducted an evaluation of software tools for the annotation of sequence variants for clinical sequencing, with oversight from Christina Zheng, Ph.D., research assistant professor.

William Hersh, M.D., professor and chair, is principal investigator of the NLM grant, while Dr. Dorr serves as faculty lead of the internship program. ■

Building Partnerships

Continued from Page 1
diversify its funding base.

"We're interested in working on major healthcare and health research challenges that can be best addressed by collaborative academic-industry development and implementation of informatics solutions," said associate professor Aaron Cohen, M.D., M.S., Director of Commercial Partnerships and Collaboration within DMICE.

IDL research, conducted by DMICE faculty in partnership with industry and others, will focus on problems of mutual interest between the department and those partners. At present the IDL will focus on areas where DMICE has core competencies: data-driven approaches focusing on transformation, analysis, and application of data to support healthcare redesign; care management and coordination; making electronic health records (EHRs) more effective tools; and supporting translational research.

"Our deep level of expertise in informatics methodologies and the scientific rigor that we apply to problem-solving are two of the main contributions we bring to our partnerships," said Dr. Cohen.

On the educational side, the IDL

seeks to complement the existing DMICE educational programs by offering opportunities such as local and remote practicums and internships with industry partners for current students, and "executive sabbaticals" for healthcare system employees.

The idea of better engaging with industry had existed for several years when, in early 2012, the department engaged James Huntzicker, Ph.D., head of the OHSU Division of Management, to conduct a study to determine the feasibility of creating an externally focused informatics lab at the university. Based on the results obtained, the decision was made to move ahead with establishing the Lab.

Strategic planning began in late 2012, and the Lab "soft launched" at the HiMSS Conference in March 2013, where Dr. Cohen and others met with 16 potential industry partners. Of these, 10 companies indicated that they wanted to explore possible collaborations in one or more IDL focus areas with DMICE.

Since March, the IDL has brought many of these potential partners to OHSU for deeper discussions and to present "IDL Industry Leader Talks," where these industry leaders have shared their perspectives on important healthcare challenges, their pro-

From the Chair

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we do not have challenges before us. We have always been successful at carrying our core mission, and like all successful organizations, we will need to adapt to new realities. Going forward, however, we will need to be more creative and resourceful as funding for research and training becomes tighter and competitive. Although we are a mission-driven organization, we also need to meet the financial sustainability that the university wants to see in all its programs. DMICE has weathered chal-

lenges before, and I am confident we will adapt to this one.

During the recent good times, we managed to accumulate a modest financial reserve, and we now intend to invest in the future of the department. To that end, we plan to pursue new faculty recruitments in the three major areas of the department: clinical epidemiology, clinical informatics, and bioinformatics. We believe it is vitally important to invest now in new faculty who will carry DMICE forward into the future.

Another area where we are investing is in an initiative described in the lead story for this newsletter, which

fessional experiences, and the direction in which they believe informatics is headed.

“Right now we’re developing external relationships that will lead to formal partnerships,” Dr. Cohen said. “It’s an iterative process – relationships must be nurtured before they produce results.”

The IDL is also working to build partnerships with departments within OHSU that relate closely to the Lab’s mission – for example, Technology Transfer & Business Development and the OHSU Foundation, as well as some OHSU research groups that have closely aligned interests.

Other activities include a predictive analytics service at OHSU as a partnership among several university units, including the IDL and the Center for Health Systems Effectiveness. In the near future, the IDL plans to host a panel-format “think tank” dialogue focused on predictive analytics and an interactive event focused on EHR usability.

With Dr. Cohen overseeing the IDL, a leadership team meets biweekly to provide support and direction. Members include William Hersh, M.D., professor and chair; David Dorr, M.D., M.S., associate professor and vice chair; Shannon McWeeney,

Ph.D., professor and head of the Division of Bioinformatics and Computational Biology; Robert Schuff, M.S., director of Clinical Research Informatics at the Oregon Clinical & Translational Research Institute; Judith Logan, M.D., M.S., professor; and IDL program manager, Deborah Woodcock, M.B.A.

Dr. Hersh noted, “The IDL is critical to the future of our informatics program. Not only will it help disseminate the research and educational accomplishments of the department, but it will also diversify our funding sources. Based on our success in research and education, DMICE is poised to provide value to the entire informatics community while benefiting our faculty and attracting the best and brightest students.”

Over the next year, the IDL will work to establish at least three industry strategic relationships or philanthropic partnerships. The group also plans to implement a “sandbox” instance of the Epic EHR for DMICE informatics training, research and experimentation, as well as encourage entrepreneurship among students and faculty. A continuing goal is to create greater awareness of the Lab both externally and within OHSU. ■

is the Informatics Discovery Lab (IDL). As the value of informatics is demonstrated throughout healthcare, personal health, research, and public health settings, there is a growing need for collaboration among academia, industry, healthcare delivery organizations, public health agencies, and others. Academic programs will lose their relevance if their efforts are not aligned with the greater advancement of the disciplines in which they work. There are high expectations that informatics will significantly improve healthcare and biomedical research. This will not be possible without academia closely collaborating with companies, health-related organizations, healthcare delivery systems, public health agencies, and other health stakeholders. The IDL will be a collaborative environment where students, teachers, and researchers, as well as representatives from healthcare delivery organizations, industry, and philanthropy, can partner in a variety of activities.

Part of that diversification will involve philanthropy. We hope we can engage our colleagues, friends, and alumni to invest in DMICE. One major use of gift funds will be for our students. We hope to increase the resources for student scholarships and for activities they can undertake, such as travel to meetings or career development activities. Gift funds can also provide needed investment in faculty to pursue new research and other areas of work. A form for giving is printed in this newsletter, or you can make your gift online at www.ohsu.edu/dmice/giving.

I remain optimistic for DMICE and the value that we bring to OHSU, the nation, and the world. Discovering and applying new information and tools will be our critical contribution going forward. I hope all students, faculty, staff, and supporters of DMICE will contribute to that mission going forward. ■

Biomedical Informatics Degrees in 2012-2013

Continued from Page 3

Ronda Jean Adkins, Portland, OR
Saaema Alavi, Chicago, IL
Corneliu A. Antonescu, Fairbanks, AK
Charmydevine Macrianna Beane,
 San Jose, CA
Julie Anne Belleza, Littleton, CO
Barbara Blasko, Fallbrook, CA
Cora Sue Bosshart, Anchorage, AK
Jeffrey Lee Brandt, San Francisco, CA
Melanie Hart Buehler, Portland, OR
Julie Lynne Byars, Portland, OR
Vivien Lai-Fun Choi, Loma Linda, CA
Darius N. Clarke, Austin, TX
Crystal Evenstar Clearwater, Eugene,
 OR
Shamsi Rebecca Daneshvari,
 Albuquerque, NM
Lawrence D. Dardick, Los Angeles, CA
Christopher d'Autremont,
 West Linn, OR
Tatyana Evgenievna Drevalova,
 Novosibirsk, Russia
Jan Drlik, Midland, MI
Tracy Edinger, Portland, OR
Kathleen Engstrom, Vancouver, WA
Madhumita Gangopadhyay,
 Portland, OR
Kelly A. Gossen, Newburg, OR
Daniel James Graham, Spring Lake,
 OR
Jonathan T. Gudman, Lake Oswego,
 OR
Elsbeth Gyax, Bend, OR
Jodi M. Harper, Portland, OR
Margaret Ellen Henderson,
 Midlothian, VA
Timothy B. Hill, Portland, OR
Judi G. Hofman, Bend, OR
Larry W. Holder, Springfield, IL
Chelsea Amanda Hollingsworth,
 Portland, OR
Hanson Hsu, New York, NY
Jeremy Daniel Jalabert, Eugene, OR
JoAnn L. Jordon, South Hadley, MA
Meredith Susan Josephs,
 Washington, DC
Isolde Leonie Knaap, Salem, OR

Kerry Alan Knauss, Portland, OR
Molly G. Kneen, Eugene, OR
Arthur Donald Knepper, Portland, OR
Dianne M. Laumann, Cupertino, CA
Leah Marie Lewis, Murfreesboro, TN
Megan Marie Lien, Madison, WI
Rhonda Kay Luetkenhaus, Grand
 Island, NE
Patricia E. Martin, Fairview, OR
Robert E. Mohle, Villa Park, CA
Emily Mooney, Seattle, WA
Johanna Leigh Morton, Austin, TX
Sara Elisabeth Hayden Nash,
 Tucson, AZ
Mary J. O'Neill, Somerville, MA
Agwu O. Onuoha, Atlanta, GA
Kim Stalker Osborne, Louisville, KY
Elizabeth Marie Parker, Grayslake, IL
Edward Elisha Pesulima, Moreno
 Valley, CA
Dustin Michael Pezall, Lexington, SC
Katherine D. Pomeroy, Kapa'au, HI

Cynthia Miriam Rand, Rochester, NY
Kristen Marie Sandersen, Denver, CO
Aleen Lynn Saunders, Washington, DC
Melody S. Schniepp, Chatham, IL
Phillip C. Scott, Richmond, IN
Bradley G. Sinner, Madison, WI
Michelle Marie Smerek, Kannapolis,
 NC
Tara Leigh Smith, Pensacola, FL
Jerry Michael Stultz, Coon Rapids,
 MN
Lek P. Taylor, San Jose, CA
Michelle Sardernberg Tellez,
 Oakland, CA
Patricia A. Van Dyke, Portland, OR
Mini Spoorthi Sushma Velagapalli,
 Bellevue, WA
Raymond K. Whalen, Edmonds, WA
James Wiedower, Boyce, VA
Deborah Virginia Woodcock,
 Vancouver, WA
Sandhya Yanamadala, Chesterfield,
 MO ■

EPC Conducts Reviews

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Dr. McDonagh will serve as principal investigator on a topic refinement on reducing inappropriate antibiotic use in acute cough illness, which encompasses conditions including acute bronchitis, upper respiratory infection, acute respiratory infection, rhinitis, and the common cold. The project runs from September 9, 2013-March 7, 2014, with an option for a subsequent systematic review. Dr. Buckley, Kevin Winthrop, M.D., M.P.H., associate professor of infectious diseases and ophthalmology, and Amy Cantor, M.D., assistant professor of family medicine and obstetrics and gynecology, are co-investigators.

Spectrum Research, Inc. will lead the task order for topic refinement on catheter ablation for atrial fibrillation, running from September 12, 2013 through March 11, 2014, with an option for a subsequent systematic review. Along with Dr. McDonagh,

the project will involve two investigators from Duke University.

With the UW Chase Alliance as the lead, the EPC, from September 23, 2013-September 22, 2014, will assist the Patient Centered Outcomes Research Institute (PCORI) with development of potential research topics in PCORI's Improving Health Systems program area.

Finally, with professor and chair William Hersh, M.D., as principal investigator, the topic refinement and systematic review on health information exchange brings together investigators from both sides of the department. The project runs from September 23, 2013 through May 22, 2015.

Dr. McDonagh summed up the recent spate of EPC awards: "It is very rewarding to have both our expertise in evidence review and the extensive capabilities of our new partnership be recognized in such a compelling way," she said. "I think we can anticipate that our future as the Pacific Northwest EPC will be highly successful." ■

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Student/Alumni News

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Department chair:

William R. Hersh, M.D.

Editor: Kathryn I. Pyle, A.M.L.S., M.A.

Layout: Charlotte Woodward

Contributors to this issue:

William Hersh, Kathryn Pyle, Nancy Carney, Deborah Woodcock and Joan Ash

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Questions? Please contact the editor at 503 494-6058.



OREGON
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Oregon Health & Science University
Department of Medical Informatics and Clinical Epidemiology
Mail Code: BICC
3181 S.W. Sam Jackson Park Road
Portland, OR 97239-3098