



Shared Discovery Curriculum

UPDATE November 13, 2015



This installment of the *Shared Discovery Curriculum Update* serves to provide updates on work in progress and to introduce several new curricular leaders:

Work in Progress

1. ***Chief Complaints and Concerns Boot Camp: The Sequel*** was a great success, thanks to the many participants. All C3 documents now exist in draft form, and the next steps will include final formatting of Early Clinical Experience (ECE) documents, review and formatting of Middle Clinical Experience (MCE) documents, and distribution of end-competencies into ECE and MCE weeks.
2. Quick resources:
 - a. For a one-stop general information source, take a look at the Shared Discovery Curriculum Folio available at this link:
http://curriculum.chm.msu.edu/documents/Shared_Discovery_Curriculum_Folio.pdf
 - b. Thought-provoking discussion of the evidence as it applies to education – look at this and see if you can apply it to where we are heading with the Shared Discovery Curriculum: **What would happen to education if we take education evidence seriously?** [\[LINK\]](#)
3. ***The next Town Hall is December 7, 2015 from 4:30 to 5:30 in A219 Clinical Center and 130 Secchia Center***

NEW Shared Discovery Curriculum Leadership

We have identified several more faculty leaders for this effort—please see details below:



*Providing the Flashlight and the
Compass.....*

Director of the Early Clinical Experience: William Wonderlin, PhD

Director of the Middle Clinical Experience: Cindy Arvidson, PhD

Associate Director of the Middle Clinical Experience: Louis Marks, MD

Director of the Late Clinical Experience: Churlsun Han, MD

Director of Intersessions: Helga Toriello, PhD

Director of Integration and Innovation: Anthony Paganini, PhD

Read more about these pioneering faculty below:

From Dr. Wonderlin: I am a native Midwesterner from a small farm town in Central Illinois. My career in academia began with studies in biological anthropology at Illinois State University and Duke University. While a student at Duke, I discovered through a part-time job the joys of electrophysiology, which brought together my interests in biology, physics and engineering very well. I changed my academic direction, and I received my Ph.D. in Environmental Health Sciences from the Johns Hopkins School of Hygiene and Public Health. I continued my training in physiology (and expanded my interests in winter sports) during postdoctoral training at the University of Calgary. I joined the faculty in the Department of Pharmacology & Toxicology at West Virginia University's Health Science Center, and then in the second half of my time at WVU I moved to the Department of Biochemistry. At WVU I ran a laboratory in which we studied the physiology and cell biology of ion channels, and I enjoyed teaching medical and graduate students. After 20 years at WVU, my wife Linda (who was also a professor at WVU) and I decided that we wanted a change of scenery and Linda (a native Michigander) was offered a faculty position in Grand Rapids. I felt like I won the lottery when at the same time a position opened in the Department of Physiology at the Secchia Center. I have greatly enjoyed sampling a wide variety of academic interests over my career. I am looking forward to working in the new curriculum and identifying novel ways for students to gain a more fundamental understanding of the basic medical sciences.

Dr. Cindy Arvidson is a California transplant to Michigan and an avid fan of Spartan athletics (unless they are playing UCLA). She earned a BA in Biology from the University of LaVerne (CA) and a PhD in Microbiology from UCLA. After a post-doc in San Diego (Scripps Clinic), which continued in Portland (Oregon Health Sciences University) for a few years, she moved to East Lansing in 2000 to join the faculty in the MSU Department of Microbiology and Molecular Genetics, where her husband, Dennis, is also a faculty member. For several years she has run a research lab studying *Neisseria gonorrhoeae*. Research interests include interactions between the pathogen and its host, the role of the microbiota in infection, and the development of antibiotic resistance. She has taught Medical Microbiology in the Block I curriculum since 2002 and started her role in CHM administration as Block I Director in 2008. She added the hat of MD/PhD Program Director in 2011, and enjoys working with that small, elite group of students to navigate two doctoral programs.

She has adapted to the Michigan seasons by installing a wood stove, learning to cross-country ski and buying a canoe. She also likes biking around town, camping, and loves the beach, although she misses the salty smell when she camps on Lake Michigan. She has two children, Richie (23) and Rose (18, better known as Max - ask her the story of the origin of "Max" sometime). With Richie and Max now in college, and Block I ending in 2016, she is eager for a challenge and looking forward to whatever she can contribute in the SDC!

Dr. Louis Marks: Dr. Marks is an Associate Professor in the Department of Medicine at MSU-CHM. He received a B.S. degree from the University of Notre Dame, and his M.D. degree from the University of Chicago. He completed a fellowship in Hematology-Oncology at Loyola (Illinois) University Medical Center, and is board certified in internal medicine, medical oncology, and hematology. He subsequently entered medical practice in Grand Rapids, and specialized in adult hematology and hematologic oncology, notably leukemias and lymphomas, with a special interest in the use of bone marrow transplantation and the management of post-transplant patients. Dr. Marks was a member of the American Society of Hematology Committee on Practice, as well as an NCI investigator. Upon retirement from clinical practice, he joined MSU-CHM in 2008 as a preceptor. Concomitant with that, he completed a certificate in Quality Management from Eastern Michigan University in 2011.

In 2012, Dr. Marks became assistant director, and in 2014, director, for the Problem-Based Learning course.

He enjoys playing bridge (one of the few still around, he jokes), tournament poker, classic movies, grandchildren, and working on home projects.

Dr. Churlsun Han is an assistant professor with the Department of Medicine. He earned his MD at the Medical College of Ohio in Toledo, and completed his residency training at Michigan State in East

Lansing. He is currently an outpatient primary care clinician with the Division of General Internal Medicine.

He has been heavily involved in undergraduate medical education at CHM, and currently serves as a director of the Lansing Community's Internal Medicine Clerkship, director of the pre-clinical Mentor Program, assistant director of the Clinical Skills program, and assistant director in the Integrative Clinical Correlations course. He serves on the CHM Curriculum Committee and completed the primary care faculty development fellowship through OMERAD.

His areas of scholarly focus have been around professionalism and medical education. He has won the Teacher-Scholar Award and has presented regionally and nationally on medical education innovations.

Dr Helga Toriello received her BS degree in Biology from Cornell University, her MS degree in Genetic Counseling from Rutgers University, and her PhD in Genetics from Michigan State University. Prior to coming to work for CHM, Dr. Toriello was the Director of the Medical Genetics service at Spectrum Health. She is proud of how she built the program from a staff of fewer than 2 full-time people to a service which now includes 3 MD geneticists, 13 genetic counselors, and 2 administrative assistants based in three different departments throughout Spectrum Health. She joined the CHM faculty in 2007 as Assistant Director of SCCD, and later added the position of Assistant Director of Block I and course director of the Medical Genetics course (BMB 526) to her list of duties. Dr. Toriello has also published over 100 papers in peer reviewed journals and is the co-editor of two books (She notes: "1,048,984 and 1,940,250 on Amazon's rank of best sellers. Harry Potter they are not!"). When not thinking (obsessing? worrying?) about being the Director of Intersessions, Dr. Toriello loves to golf (even if it's raining, sleeting, or snowing!) and play with neurotic cat Sammy.

Dr. Anthony Paganini is an associate professor of Physiology who received his BS in Mechanical Engineering from The Ohio State University and doctorate in Physiology from Michigan State University in the area of cellular energetics and metabolic control in 1998.

After 15 years of teaching gross anatomy, histology, and embryology to pre-medical and medical students within the Department of Radiology, Dr. Paganini joined the faculty of Physiology. In 2013, he co-directed the Early Clinical Experience pilot program which placed students in primary care settings while they learned related necessary science.

Dr. Paganini was a 2012 MSU Adams Academy Fellow for Instructional Excellence and has served periodically as an instructor of anatomy and histology or physiology in the CHM ABLE program since the late 1990s. He also continues to serve on the CHM Curriculum Committee, CHM Graduate Studies Committee, CHM Student Scholarship Committee, and the University Committee on Curriculum.

Dr. Paganini's professional interests center on unencapsulating physician cognitive structures about basic sciences, unpacking how medical students learn, and fostering vigorous curricular collaboration

among medical students, physicians, and basic scientists. Extramural activities include being a presenter for the annual MSU Science Festival, an anatomy judge in the Michigan Science Olympiad, and a USMLE Step I item writer. Anthony is happy when he finishes a sprint triathlon under 3 hours. He thinks English bulldogs rule, visits Chicago for its architecture, food, and museums, is interested in the socio-intellectual history of anything, and is fascinated by cultural linguistics.

Regarding the role of Director of Integration and Innovation: The Shared Discovery Curriculum enables us to continue CHM's tradition of innovation. Dr. Paganini will work with faculty and staff across the entire Shared Discovery Curriculum to develop, prototype, and implement educational best practices that support the robust integration of necessary science with our clinical experiences.

Stay tuned for the next regular update on Shared Discovery Curriculum progress!

Dianne Wagner, MD
Associate Dean for Undergraduate Medical Education