# Moving Towards Online Faculty Development: The View Over the Horizon

ACGME Annual Meeting, San Diego, California February 27, 2015

This handout is not an exhaustive list and may inadvertently leave out superb faculty development materials. It is meant to provide examples of types of resources (primarily free) that could be used for moving towards online faculty development.

## Online Faculty Development Modules

- MedEDPORTAL (MedEDPORTAL has numerous educational resources that have been peer reviewed. These range from online modules to videos to workshops-in-a-box.
   These resources are free to use, some materials can be adapted for blended learning/flipped classroom type approaches)
  - MedEDPORTAL Resources the online repository for curriculum
    - Giving Effective Feedback: A Faculty Development Online Module and Workshop: https://www.mededportal.org/publication/8119
    - Workshop in a Box: Visual Demonstration of Small Group Facilitation Techniques for Faculty Development: <a href="https://www.mededportal.org/publication/5103">https://www.mededportal.org/publication/5103</a>
    - Medical Teaching Resources for Faculty Developers (40 video vignettes developed for use by faculty developers in a variety of settings. The vignettes depicting effective and not so effective teaching methods relate to: Presentation Skills; Active Learning Strategies; Small Group Teaching and Clinical Teaching): https://www.mededportal.org/publication/9336
- Faculty Development 4 Me Faculty Development for Medical Educators (minimal cost associated with modules). This is an online faculty development program from The Ohio State College of Medicine: <a href="https://fd4me.osu.edu/">https://fd4me.osu.edu/</a>
- E-learning modules from the London Deanery. This series of open access short modules covers core topics in clinical teaching and learning. They have been developed by the Multiprofessional Faculty Development Team to inform and support the professional development of clinical teachers. On completion of a module, a certificate can be printed out for your own records or portfolio. E-learning for clinical teachers was designed and edited by Judy McKimm and Tim Swanwick: <a href="http://www.faculty.londondeanery.ac.uk/e-learning">http://www.faculty.londondeanery.ac.uk/e-learning</a>
- Johns Hopkins Faculty Development. Click on "course offerings" and then "videos" for some online educational videos on medical education topics.
   <a href="http://www.hopkinsmedicine.org/fac\_development/">http://www.hopkinsmedicine.org/fac\_development/</a>
- University of Virginia's Family Medicine Clerkship Preceptor Development program
   (PDP): These are great modules for faculty or community preceptors who work with
   learners primarily in the outpatient setting. There are 7 modules in total.
   <a href="http://www.med-ed.virginia.edu/courses/fm/precept/index.htm">http://www.med-ed.virginia.edu/courses/fm/precept/index.htm</a>

- Florida International University Herbert Wertheim College of Medicine: They have 3 online modules: 1) Narrative Evaluation of Student Performance, 2) Orientation to Clerkship Teaching, and 3) Feedback in Clinical Teaching:
   <a href="http://medicine.fiu.edu/education/md/learning-and-teaching/faculty-development-series/online-faculty-development-modules/index.html">http://medicine.fiu.edu/education/md/learning-and-teaching/faculty-development-series/online-faculty-development-modules/index.html</a>
- Magna Commons is an on-line on-demand faculty development program for higher education. It has over 150 different seminars available and is compliant with Blackboard. It is geared towards higher education and not specific to medical education but many of the modules are relevant to educator development within medical education. It has a free seven-day trial for one to explore the array of topics. Modules are associated with a cost. Additionally you can buy "packs" of modules around specific topics such as the Flipped Classroom and Online Learning. <a href="http://learn.magnacommons.com">http://learn.magnacommons.com</a>
- STFM Medical Educators Teaching Physician Webinars. This reference is for physicians or who work with trainees primarily in the outpatient setting and it has a fee associated with the resource.
  - https://www.stfm.org/OnlineEd/Webinars/TeachingPhysicianWebinars
- You Tube Teaching Videos. Free online teaching videos: <a href="http://www.youtube.com">http://www.youtube.com</a>
  - Teaching skills (example: The SNAPPS model of clinical precepting: <a href="https://www.youtube.com/watch?v=rywuzkm8nmY">https://www.youtube.com/watch?v=rywuzkm8nmY</a> and <a href="https://www.youtube.com/watch?v=BPNOdPKUFDE">https://www.youtube.com/watch?v=BPNOdPKUFDE</a>)
  - Evaluation/Assessment (video re-enactment of a student with a standardized patient <a href="http://www.nejm.org/doi/full/10.1056/NEJMra054784">http://www.nejm.org/doi/full/10.1056/NEJMra054784</a> and video

# Online Faculty Development Massive Open Online Course (MOOC):

- "Instructional Methods in Health Professions Education" is a free MOOC on medical education. It is provided by University of Michigan through Coursera platform: https://www.coursera.org/course/instructmethodshpe
- "Teaching and Assessing Clinical Skills" is a free MOOC on medical education. It too is provided by University of Michigan through Coursera platform: https://www.coursera.org/course/clinicalskills
- "Clinical Problem Solving" is a free MOOC from the University of California, San Francisco. <a href="https://www.coursera.org/course/clinprobsolv">https://www.coursera.org/course/clinprobsolv</a>
- **"E-learning Ecologies"** another free MOOC from the University of Illinois. https://www.coursera.org/course/elearning

### Online Review of Medical Education

- **KeyLIME (Key Literature in Medical Education podcasts):** KeyLIME brings you the main points of a medical education article via podcast in 20 minutes or less. Sit back, listen and learn and earn MOC credits under Section 2 at the same time! 70+ podcasts and counting...check out <a href="www.royalcollege.ca/keylime/podcasts">www.royalcollege.ca/keylime/podcasts</a> for the full list or subscribe for free via Apple iTunes and never miss an episode.
- Clinical Teacher Podcasts: These are free 5-12 minute podcasts on a variety of topics in medical education. <a href="http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1743-498X/homepage/podcasts.htm">http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1743-498X/homepage/podcasts.htm</a>
- Multiprofessional podcasts for the clinical educators: Free podcasts from the London deanery on a variety of topics in medical education. <a href="http://www.faculty.londondeanery.ac.uk/other-resources/multiprofessional-podcasts-for-clinical-educators">http://www.faculty.londondeanery.ac.uk/other-resources/multiprofessional-podcasts-for-clinical-educators</a>

### Online Master of Education Programs

- Master in Medical Education Leadership program. Jointly sponsored by the College of Osteopathic Medicine at the University of New England and the Office of Medical Education at Maine Medical Center in Portland. <a href="http://www.une.edu/com/mmel">http://www.une.edu/com/mmel</a>
- Master of Education in Curriculum & Instruction with an Emphasis in Health Science
   Education program. Sponsored by the University of Houston, Baylor College of
   Medicine and the University of Texas Health Sciences Center.
   <a href="http://medical.coe.uh.edu/about.htm">http://medical.coe.uh.edu/about.htm</a>
- Online Master's Degree in Education. Sponsored by Cincinnati Children's Hospital. http://www.cincinnatichildrens.org/education/clinical/graduate/grad/masters/default/

# Free Online Textbooks/Curriculum for Clinician-Educators

- The Clinician-Educator's Handbook <a href="https://www.mededportal.org/publication/7749">https://www.mededportal.org/publication/7749</a> or www.bcm.edu/pediatrics/clinician educator handbook
- The MCG Medical Teacher's Handbook https://www.mededportal.org/publication/450
- Teaching Skills for Community Based Preceptors <a href="https://www.mededportal.org/publication/219">https://www.mededportal.org/publication/219</a>

### Technological Tools to Facilitate Engagement during Face-to-Face Time

 Poll Everywhere – audience response system(with larger audiences it has a cost): http://www.polleverywhere.com/

- **Today's Meet**. An online microblogging tool to generate discussion: https://todaysmeet.com/
  - How to use this microblogging tool to generate discussion http://www.learnitin5.com/Todays-Meet
- **Nearpod** an electronic means to engage and synchronize learners on ipads: <a href="https://www.nearpod.com">www.nearpod.com</a>
  - O How to use Nearpod: <a href="https://www.youtube.com/watch?v=oOhwDAC-aok">https://www.youtube.com/watch?v=oOhwDAC-aok</a> and other YouTube videos are available on its use.
- Baiboard is a collaborative whiteboard for Ipads and Macs: <a href="http://www.baiboard.com/">http://www.baiboard.com/</a>
  - How to use Baiboard A Collaborative Whiteboard for Ipads and Macs <a href="http://www.21things4ipads.net/uploads/2/0/3/6/20367563/whiteboard collab-oration">http://www.21things4ipads.net/uploads/2/0/3/6/20367563/whiteboard collab-oration</a> with baiboard.pdf
  - Baiboard: YouTube Video on How to Share a Collaborative Whiteboard <a href="http://www.youtube.com/watch?v=tebAgLtyc1c">http://www.youtube.com/watch?v=tebAgLtyc1c</a>

## Tools for Facilitating Online Communities of Practice

Google Hangout: <a href="http://www.google.com/hangouts/">http://www.google.com/hangouts/</a>

Webinars (One example: WebEx: <a href="http://www.webex.com">http://www.webex.com</a>)

Wiki's – (one example: PBWiki: <a href="http://www.pbworks.com/">http://www.pbworks.com/</a>)

# **Tools for Online Module Development**

(Note: these all require a significant investment in resources and technological expertise. Investigate thoroughly to find the right system for your faculty member's needs. Make sure and investigate what authoring tools your institution already owns or uses.)

- Articulate: https://www.articulate.com/
- Adobe Captivate:

http://thankyou.adobe.com/en/na/products/CP/v3/1106 captivate.html?sdid=KQWWR &skwcid=AL!3085!3!58089293062!b!!g!!buy%20+adobe%20+captivate&ef\_id=VCwUXQA AAe1sKi2M:20150217184148:s

• Litmosauthor: <a href="https://www.litmosauthor.com/">https://www.litmosauthor.com/</a>

# <u>Literature References and Resources:</u>

# **Designing Online Courses**

- Online webpage from the University of Central Florida that provides a great overview on designing online modules with lots of links: <a href="http://www.fctl.ucf.edu/teachingandlearningresources/learningenvironments/teaching-online/modules.php">http://www.fctl.ucf.edu/teachingandlearningresources/learningenvironments/teaching-online/modules.php</a>
- Online article on Five Technological Considerations When Choosing an E-Learning Solution. http://elearnmag.acm.org/featured.cfm?aid=2134469
- Online article on "How to Create an Interactive Online PowerPoint Module."
   <u>http://www.articulate.com/rapid-elearning/how-to-create-an-interactive-powerpoint-elearning-module/</u>

#### Textbooks on Instructional Design

- Walter, D., Lou, C., & James, O. C. (2001). The systematic design of instruction.
   Pearson Education, Inc., Upper Saddle River, NJ.
- Many instructional designers are now using the following principles: Allen, M., & Sites, R. (2012). Leaving Addie for Sam. American Society for Training and Development.
- Conrad, R. M., & Donaldson, J. A. (2011). Engaging the online learner: Activities and resources for creative instruction (Vol. 38). John Wiley & Sons.
- Cross, J. A., Cross, J., & Dublin, L. (2002). *Implementing e-learning*. American Society for Training and Development.

# Literature on Online Faculty Development and Online Communities of Practice

- Steinert Y, Mann K, Prideaux D, et al. A systematic review of faculty development initiatives designed to improve teaching effectiveness in medical education: BEME Guide No. 8. Medical Teacher [serial online]. September 2006;28(6):497-526. Available from: MEDLINE with Full Text, Ipswich, MA. Accessed February 8, 2015.
   <a href="http://sph.bumc.bu.edu/insider/images/stories/resources/Literature/Steinert A%20systematic%20review%20of%20fac%20dev%20initiatives.pdf">http://sph.bumc.bu.edu/insider/images/stories/resources/Literature/Steinert A%20systematic%20review%20of%20fac%20dev%20initiatives.pdf</a>
- Means, Barbara, et al. "Evaluation of Evidence-Based Practices in Online Learning: A
  Meta-Analysis and Review of Online Learning Studies." US Department of Education
  (2009). <a href="http://files.eric.ed.gov/fulltext/ED505824.pdf">http://files.eric.ed.gov/fulltext/ED505824.pdf</a>
- Keengwe, Jared, and Terry T. Kidd. "Towards best practices in online learning and teaching in higher education." MERLOT Journal of Online Learning and Teaching 6.2 (2010): 533-541. http://jolt.merlot.org/vol6no2/keengwe\_0610.htm
- Ally, Mohamed. "Foundations of educational theory for online learning." Theory and practice of online learning 2 (2004): 15-44. Accessed February 8, 2015 http://cde.athabascau.ca/online\_book/ch1.html
- Sherer, P. D., Shea, T. P., & Kristensen, E. (2003). Online communities of practice: A catalyst for faculty development. *Innovative Higher Education*, *27*(3), 183-194. Found at:

- http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.473.8540&rep=rep1&type=pdf
- Lowenthal, P. R. (2008). Online faculty development and storytelling: An unlikely solution to improving teacher quality. *Journal of Online Learning and Teaching*, 4(3), 349-65. Found at:
  - http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.190.6617&rep=rep1&type=pdf
- Brooks, C. F. (2010). Toward 'hybridised'faculty development for the twenty-first century: blending online communities of practice and face-to-face meetings in instructional and professional support programmes. *Innovations in Education and Teaching International*, 47(3), 261-270.
- Vaill, A. L., & Testori, P. A. (2012). Orientation, Mentoring and Ongoing Support: A
  Three-Tiered Approach to Online Faculty Development. *Journal of Asynchronous Learning Networks*, 16(2), 111-119. <a href="http://files.eric.ed.gov/fulltext/EJ971048.pdf">http://files.eric.ed.gov/fulltext/EJ971048.pdf</a>
- Lock, J. V. (2006). A new image: Online communities to facilitate teacher professional development. *Journal of Technology and Teacher Education*, *14*(4), 663-678.
- Steinert, Y. (2010). Faculty development: From workshops to communities of practice. *Medical teacher*, *32*(5), 425-428.
- Cox, M. D. (2004). Introduction to faculty learning communities. New directions for teaching and learning, 2004(97), 5-23.
   <a href="http://www.suffolk.edu/documents/CTSE/intro">http://www.suffolk.edu/documents/CTSE/intro</a> to flcs.pdf

## On-line Resources Related to Flipped Classrooms

- Khan, S. (2011). Let's use video to reinvent education. TED.com—this is the Ted video <a href="http://www.ted.com/talks/lang/en/salman khan let s use video to reinvent education.html">http://www.ted.com/talks/lang/en/salman khan let s use video to reinvent education.html</a>
- 7 THINGS YOU SHOULD KNOW ABOUT...™ FLIPPED CLASSROOMS http://net.educause.edu/ir/library/pdf/eli7081.pdf
- Flipped Classroom The Flipped Classroom Infographic. A new method of teaching is turning the traditional classroom on its head <a href="http://www.knewton.com/flipped-classroom/">http://www.knewton.com/flipped-classroom/</a>
- Vanderbilt Center for Teaching Flipping the Classroom by Cynthia J. Brame, CFT

  Assistant Director http://cft.vanderbilt.edu/guides-sub-pages/flipping-the-classroom/
- New Generation Learners [Nice video demonstration of learning preferences of the New Generation]
   <a href="https://www.youtube.com/watch?v=SkhpmEZWuRQ&list=FLr4hl\_COBiunN0y0MBcjHYA">https://www.youtube.com/watch?v=SkhpmEZWuRQ&list=FLr4hl\_COBiunN0y0MBcjHYA</a>
- Miller, A. (2012). Five best practices for the flipped classroom. Edutopia. http://www.edutopia.org/blog/flipped-classroom-best-practices-andrew-miller
- Benitez J, Where is Pedagogy in flipped classrooms?
   http://academiclifeinem.com/where-pedagogy-in-flipped-classrooms/

- Making Videos for Flipped Classrooms <a href="http://www.eschoolnews.com/2012/05/21/how-to-make-videos-your-students-will-love/">http://www.eschoolnews.com/2012/05/21/how-to-make-videos-your-students-will-love/</a>
- Stanford embraces Flipped Classroom model
   <a href="http://www.insidehighered.com/news/2013/09/09/stanford-university-and-khan-academy-use-flipped-classroom-medical-education">http://www.insidehighered.com/news/2013/09/09/stanford-university-and-khan-academy-use-flipped-classroom-medical-education</a>

## <u>Literature on Flipped Classrooms</u>

- Prober, C. G., & Khan, S. (2013). Medical education reimagined: a call to action. *Academic Medicine*, 88(10), 1407-1410.
- Berrett, D. (2012). How 'Flipping'the classroom can improve the traditional lecture. *The Chronicle of Higher Education*, 19.
- Prober, C. G., & Heath, C. (2012). Lecture halls without lectures —a proposal for medical education. *N Engl J Med*, *366*(18), 1657-1659.
- Mehta, N. B., Hull, A. L., Young, J. B., & Stoller, J. K. (2013). Just imagine: new paradigms for medical education. *Academic Medicine*, 88(10), 1418-1423.
- Ferreri, S. P., & O'Connor, S. K. (2013). Redesign of a large lecture course into a small-group learning course. *American journal of pharmaceutical education*, 77(1).
- McLaughlin, J. E., Roth, M. T., Glatt, D. M., Gharkholonarehe, N., Davidson, C. A., Griffin, L. M., ... & Mumper, R. J. (2014). The flipped classroom: a course redesign to foster learning and engagement in a health professions school. *Academic Medicine*, 89(2), 236-243.
- Pierce, R., & Fox, J. (2012). Vodcasts and active-learning exercises in a "flipped classroom" model of a renal pharmacotherapy module. *American journal of pharmaceutical education*, 76(10).