

RESPOND

SUCCESS STORY: UNIVERSITY NETWORKS

Africa-Southeast Asia-US faculty exchange marks initial success in transforming the student experience towards One Health



In June 2012, faculty members from the two RESPOND supported university networks in Africa and Southeast Asia: OHCEA (One Health Central and Eastern Africa) and SEAOHUN (Southeast Asia One Health University Network) attended a 3-week 'immersion' in One Health, at the University of Minnesota, USA.

Through practice and application of different methodologies including active learning, collaboration, participatory methods, team based learning and 'scholarship of teaching and learning' (applying and documenting experimental

processes to teaching), participating faculty members left the workshop with a toolbox holding these and many other tools needed to change the current paradigm into a One Health reality.

In addition to visiting faculty members from OHCEA and SEAOHUN, the RESPOND team was joined throughout the three week exchange by many other University of Minnesota faculty members across a variety of schools and disciplines, Louise Flynn from Ecology and Environment, and Dr. Jenny Steele from Tufts University – all interested in collaborations with their OHCEA and SEAOHUN counterparts.

During the first week of the exchange, network members' faculty toured various campuses, schools and different 'One Health' collaborators around the state (including MN state departments of health, agriculture and natural resources). For the second week, participants attended courses at the School of Public Health's 'Public Health Institute' including:

- *Farm to table study program: Minnesota;*
- *Food System Defense: Vulnerabilities and How to Close Them;*
- *Making the Case for One Health: Putting Planning, Skills and Experience into Action;*
- *From Facebook to focus group;*
- *Global Food Systems: Pork;*
- *Global One Health Leadership Workshop;*
- *Introduction to Environmental and Occupational Health and Safety.*

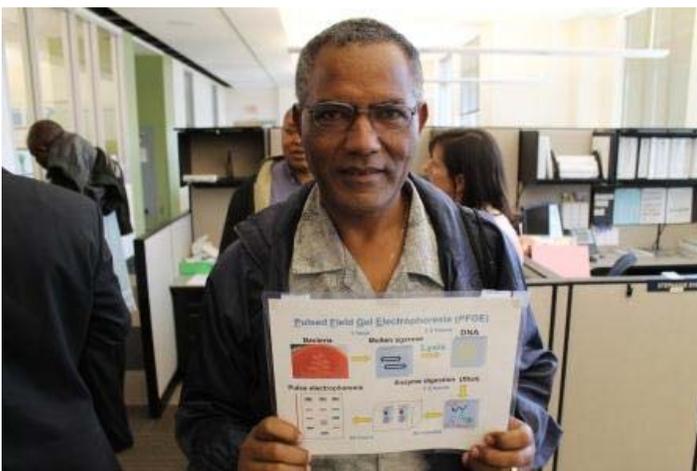


Prof. Mwanthi (Kenya) reviews a bald eagle radiograph at UMN's world renowned Raptor Center

The third week comprised a curriculum development / faculty development workshop led by Deb Wingert, from the Center for Teaching and Learning at the University of Minnesota. The workshop focused on introducing a new teaching and learning paradigm for the 21st century, marked by methodologies to improve multi-disciplinary collaboration consistent with the One Health approach. At the beginning of the workshop participants self-selected into four topic areas (groups) based on personal, institutional and country interests:

- 1) One Health Leadership Field Experience (One Health Demonstration Sites);
- 2) Ecosystem Health / One Health (targeting private sector and extractive industries);
- 3) Risk Analysis (in One Health);
- 4) Epidemiology for Outbreak Response in Human, Domestic Animal and Wildlife Populations.

The groups started with macro-design methodologies to outline a skeleton for their proposed courses, and then adding on micro-design methods over the next several days to develop content for each course. Active



Prof. Kifle (Ethiopia) displays the Pulsed Field Gel Electrophoresis (PFGE) technique used for food-borne disease surveillance at UMN Dept. of Health.

learning and team based learning concepts were introduced and practiced each day of the workshop. This workshop design served two purposes: (1) to transition from the 'old teaching paradigm' (lecture based learning) to the 'new teaching paradigm' (active, team-based, collaborative and scholarly); and (2) to demonstrate and apply collaborative cross-disciplinary course development methods consistent with the university networks' vision of One Health.

Dr. Tom Molitor, chair of UMN's Veterinary Population Medicine department, introduced the concept of SOTL

(scholarship of teaching and learning), which garnered much interest and discussion into how it can be applied

in very different institutional cultures, with new knowledge garnered shared across those different cultures and teaching disciplines.



Minnesota Veterinary Diagnostic Lab director, Dr. Jim Collins, gives a tour of the facility and pathology floor.

Overall, the three-week faculty exchange experience was a tremendous success, with faculty participants committed to translating and applying methodologies and lessons learned to their home institutions. As they are applied, these methodologies are representative of a paradigm shift towards applying the One Health concept into the student experience across the globe. USAID RESPOND is very proud to support university networks as a hallmark success for One Health and USAID's Emerging Pandemic Threats Program.



Prof. Le Thi Thanh (Viet Nam) visits 'Team D', a unique One Health approach to food-borne disease surveillance in MN



Group photo at conclusion of curriculum development / faculty development workshop on UMN St Paul campus