May/June 2013 UMN RESPOND Update:

University Network Faculty Exchange 2013 Overview:
May 28- June 23, 2013: Minnesota (USA)

In May and June 2013 there was an international One Health convergence at the University of Minnesota. Teaching faculty, residents and students from the university were joined by international partners from two One Health university networks from Southeast Asia and Africa in a unique and novel program aimed at synergizing related efforts to affect global change towards One Health.

Highlights included:
- A week-long One Health case study development workshop, delivering case studies on rabies, brucellosis, malaria and cryptosporidiosis.
- Teaching Summer Public Health Institute students using the One Health case studies in a short course called International Approaches to Zoonotic Disease Outbreaks: Perspectives from Africa and Southeast Asia
- Visits to Minnesota state government agencies and hands-on learning about One Health approaches to foodborne disease outbreaks
- Interacting with and across public, private and academic sector partners including:
  - Minnesota Department of Health, Department of Agriculture, Department of Natural Resources, Board of Animal Health, the Minnesota Zoo, the Mayo Clinic, New Sweden Dairy Education Center and Minneapolis Farmers Market
- Facilitating a “disaster camp” simulation exercise run by the US Centers for Disease Control and Prevention and UMN’s Medical School
- Co-hosting the EcoHealthNet annual training workshop for graduate students from around the world
I. One Health Case Development Workshop

Dr. David Langley from the UMN Center for Teaching and Learning helped teach a week-long training workshop on active learning, the scholarship of teaching and learning, and case study development, where the ultimate outcome was to develop a One Health disease outbreak case study. Faculty from the Academic Health Center shared various case study examples for illustration, including topics like Ebola and joint infections. The four teams of interdisciplinary faculty representing mixed nationalities presented their case studies to graduate students and working professionals at the Public Health Institute course, *International Approaches to Zoonotic Disease Outbreaks: Perspectives from Africa and Southeast Asia* (see below).

Lecturers provide faculty with a scholarly discussion on active learning and development of case studies.

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II. Public Health Institute teaching experience: International Approaches to Zoonotic Disease Outbreaks

International faculty exchangees had the unique opportunity to utilize their One Health case studies by teaching them to a group of Masters in Public Health students at UMN’s annual Summer Public Health Institute. This short course had a very unusual feature of a faculty to student ratio of about three to one. Students and faculty alike learned from case studies on rabies, cryptosporidiosis, brucellosis, yellow fever, Ebola fever and malaria, through different active learning and participatory approaches.

Students and faculty engage in a lively discussion about zoonotic disease outbreaks during the Public Health Institute class.

III. Public Health Institute: Aquaculture and Processed Foods

In addition to teaching at the aforementioned Public Health Institute class, faculty guests participated in two Public Health Institute classes looking at global food systems, one focusing on processed foods and the other on aquaculture. The format of these courses revolved around site visits to major facilities representing these highly complex food systems.
IV. Human Disaster Camp

On June 1, all faculty guests participated in a human disaster simulation camp held at Phillippo Scout Reservation. The faculty role-played as “important officials” during a public health disaster of unknown origin, whom physicians, medical students, and other health students and staff had to acknowledge while trying to triage and treat the disaster “victims.”

V. Assorted One Health Field Trips

Drs. Karin Hamilton, Michael Mahero, and Jeein Chung helped organize a series of field trips to some of Minnesota’s notable agencies and institutions addressing the state’s One Health problems. These included site visits to the Minnesota Department of Health, Department of Agriculture, Board of Animal Health, Department of Natural Resources. Other visits included the Cub Food, Minneapolis Farmers Market, and Chuck Musker Deer Farms.

SEAOHUN and OHCEA faculty pose with Karin Hamilton for a photo after hours of role-playing as “important officials.”
VI. EcoHealthNet

Twenty-two participants, 8 disciplines, 7 countries and 5 days, simply put- One Health collaboration at its best! What is being referred to is the National Science Foundation (NSF) funded research network workshop: EcoHealthNet. This was a collaborative effort between Ecohealth Alliance and the UMN’s Ecosystem Health Initiative. The exchange faculty helped facilitate this annual training workshop whose theme this year was *EcoHealth/One Health Approaches to Prevention and Control of Zoonotic Disease*. Faculty participated in this field-based and experiential workshop which trained students in practical research skills and immersed them in real-world field locations. Students learned about One Health outbreak control and prevention strategies from the real stakeholders who manage and influence outbreaks in Minnesota; OHCEA and SEAOHUN faculty were there to provide comparative discussions about similar approaches around the world. The overall goal was to build skills in evaluating risk at the human-animal-environmental interface and developing strategies to mitigate risk through cross-disciplinary and cross-sectoral engagement.

*Experiences inside and outside of the classroom keep students, faculty and lecturers engaged throughout EcoHealthNet.*
One Health Resident Exchange
May 22-June 28, 2013: Minnesota (USA)

In conjunction with the faculty exchange, the University of Minnesota hosted the newest cohort of One Health Residents from Makerere University (Uganda), accompanied by Drs. Andrew Tamale, the one health resident coordinator and Sylvia Wanzala, the one health resident mentor, from Makerere University (Uganda).

The one health residents are drawn from different backgrounds: Dr. Shamilah Namusisi has over eight years working with rural communities and non-governmental organizations in Uganda, Ms. Jacinta Mukulu Waila, a nurse from Kenya who has worked with pastoral communities in Turkana, Kenya and Dr. David Muwanguzi, a veterinarian who has worked with the local government in Uganda.

The five-week period spent in the US begun with an interview for the monthly newsletter of the Center for Animal Health and Food Safety (CAHFS) where the residents and their mentors shared their experiences about the program and plans for the future.

This was followed by attendance of the following Public Health Institute courses: Principles of Risk Communication; Performance Improvement for Public Health Departments Using Quality Improvement Methods; Vulnerabilities in the Food System and How to Close Them, Surveillance of Food Borne Infections in Humans; Global One Health Leadership Workshop & Practicum; and Farm to Table Study Program: Minnesota. This helped the residents to network and see how best to apply the skills learned from these courses. In particular was the Global One Health Leadership program where participants learned amongst other things, the importance of conflict resolution and conflict management as leaders.

The Farm to Table program exposed the residents to the chain that food, in Minnesota and the United States, makes from the farms to the markets and homes. One highlight was sharing of experiences between the US and other countries represented in the course like Uganda, Kenya and India.

One health residents with Dr. Will Hueston during the Global One Health Leadership course
The last two weeks of the time in MN was spent in the ‘residency twinning’ program. Here the One Health residents met, interacted and shared experiences with the Veterinary Public Health Residents at the University of Minnesota. The One Health residents made presentations during the weekly rounds sessions and also were part of the week-long Veterinary Public Health rotation for 4th year veterinary students.

The experience was not only eye-opening to the residents but also one that honed and improved their networking and public speaking skills.

Working Together to Build OHCEA’s Monitoring and Evaluation Capacity

June: Uganda

Meanwhile, on the other side of the globe, Amy Pekol and Dr. David Chapman from the UMN M&E team met with staff from the RESPOND East Africa Office, the OHCEA Secretariat, and Makerere University in Kampala, Uganda. These meetings helped identify areas where RESPOND can support the OHCEA network in developing its own evaluation and strategic planning capacity. M&E activities identified for support include a midterm evaluation of the OHCEA network, an M&E training for Country Coordinating Committee (CCC) members, and an evaluation workshop for Makerere University faculty and staff engaged in innovative One Health programs. These activities aim to build upon the M&E interests and strengths of OHCEA members and generate a broad support base for long-term evaluation capacity-building.
Risk Analysis Workshop
June 3-7: Vietnam

Dr. Fernando Sampedro Parra and partners from Tufts University conducted a 5-day risk analysis workshop in Hanoi, Vietnam, covering both the Office international des épizooties (OIE) and FAO/WHO (CODEX) risk analysis frameworks. The training included qualitative and quantitative methodologies for examining zoonotic disease events pertinent to Southeast Asia, as well as field trips to local meat processing facilities. Participants were primarily university staff from the four SEAHOUN countries. Participants requested that future RESPOND trainings explore further some of the concepts and tools laid out at this workshop.

Participants and organizers pose for a group photo at the end of the workshop.

Acknowledgements:
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