Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute

August 4 -14, 2017

University of Washington, Seattle, Washington

About the Program

The Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute (QMRA III) is a 10-day workshop designed for advanced graduate students, post-doctoral fellows and early career professionals to assimilate scientific data and implement computer programs towards building a risk assessment for assuring safety and health goals. Participants will gain hands-on experience with risk assessment software and work on real-world case studies. The third annual QMRA III will be held at University of Washington.

HAZARD IDENTIFICATION   DOSE RESPONSE   EXPOSURE ASSESSMENT   RISK CHARACTERIZATION   RISK MANAGEMENT

COURSE OBJECTIVES:

Obtain skills to perform microbial risk modeling through:
- Attending lectures from top scientists in the QMRA field
- Engaging in specific hands-on exercises
- Collaborating within multidisciplinary teams to conduct a research case study under the mentorship of a program faculty member and teaching assistant.
- Using and contributing to the QMRAwiki (http://qmrawiki.canr.msu.edu/)

COURSE TOPICS:

- Statistics in risk assessment
- Probabilistic uncertainty analysis
- Use of genomics in QMRA
- Emerging pathogens and diseases of global and clinical significance
- Use of epidemiological data in QMRA
- Multiple media fate and transport models
- Environmental infectious disease transmission modeling
- Dose-response modeling
- Risk perception, communication and management
  And more...

Application period: January 15 – April 15, 2017 at: https://events.anr.msu.edu/QMRAIII2017/
Program Contacts: Dr. Jade Mitchell and Dr. Mark H. Weir at: QMRAIII@anr.msu.edu

- Registration fee for QMRAIII 2017 is $200.
- Single occupancy student dorms will be provided for lodging.
- Breakfast, lunch and dinner will be provided.
- Participants are expected to cover their travel cost.
- Four travel awards will be provided based on financial need.

We assume no prior computational experience. Tutorials on computer models and applications for risk assessment (i.e. R programming, Crystal Ball, MATLAB, etc.) will be included as part of the program.

MICHIGAN STATE UNIVERSITY   THE OHIO STATE UNIVERSITY