IDM Symposium: Day 1 Developer Insights

The IDM software team is hosting a full day of dedicated software workshops Monday April 18th 2016.

Monday 4/	/18/2016 S	vmposium	Developer	Focused	Tracks

8:30am- Wo 5:30pm	Workshop	Computation Modeling Platform Services (COMPS) COMPS will be available for use by subscribed collaborators providing access to a High Performance Computing environment and various modeling tools, including EMOD. Users will learn how to do the following:			
		 Create Demographic, Temperature, Humidity and Rainfall input files. Upload and execute EMOD using a HPC cluster. Create a simulation sweep across a bounded parameter space. Graph the inset chart output of simulation and view the various channels of output. Graph multiple simulations inset chart output. Learn about the extensive tagging system in COMPS that allows you to categorize your work for retrieval and visualization. Understand how to use the COMPS dashboard. Learn about the services supported by the COMPS RESTful API. 			
8:30am- 12:30pm	Workshop	Introduction to the EMOD Software At IDM, one of the key tools used for quantitative analysis is EMOD (Epidemiological MODeling software). EMOD is an individual-based, stochastic simulation that supports disease campaign planning, data gathering, new product development, and policy decisions. Attendees of the EMOD Basics session will cover:			
		Introduction to disease modeling.Learn when and why to use EMOD.			
		Overview of the model components.Learn how to run the model and view results.			
3:30pm This session will discuss an DTK functionality with Pyth scripts that will run as part for a huge variety of optio output file transformation		Advanced DTK (Python pre- and post-processing) This session will discuss and demonstrate new capabilities within the DTK that allow for extending the DTK functionality with Python. New in EMOD v2.5, EMOD users and developers can now write Python scripts that will run as part of the DTK execution during either start-up, shutdown, or both. This allows for a huge variety of options for pre- and post-processing, including input file reformatting, and output file transformation. With this capability, input files no longer have to be in JSON format, and output files can be in a preferred format, aggregated, or merged.			

IDM Symposium: Days 2 and 3 Disease Modeling Sessions

The scientific sessions for this year's symposium will focus on disease surveillance. These sessions will occur Tuesday April 19th and Wednesday 20th 2016. To date, specialized surveillance networks have been created for polio, influenza, Ebola and other diseases but each of these networks have faced unique challenges that affect response capabilities. Talks at the symposium will address how current disease surveillance approaches can be improved and how analysis can make better use of current data.

Tuesday 4/19/2016 IDM Symposium Disease Modeling

9:00am-10:30am	General	General Session 1
		Dylan George, In-O-Tel, formerly White House Office of Science and Technology Policy

	Session	Scott Dowell, <i>BMGF</i> Busiku Hamainza, <i>Zambia National Malaria Control Center</i>
10:45am- 12:15pm	General Session	General Session 2 Vince Seaman, BMGF Sarah Volkman, Harvard School of Public Health Bryan Greenhouse, UCSF
1:20pm-2:50pm	Workshop	EMOD Christopher Lorton, <i>IDM</i>
1:20pm-2:50pm	Breakout	Surveillance Neil Abernethy, University of Washington Trevor Bedford, Fred Hutchinson Cancer Research Center Sam Scarpino, University of Vermont, Santa Fe Institute Jarad Niemi, Iowa State University
1:20pm-2:50pm	Breakout	HIV Cascade of Care Ruanne Barnabas, University of Washington Elvin Geng, UCSF Anna Bershteyn, IDM Maya Petersen, UC Berkeley
1:20pm-2:50pm	Breakout	User Interfaces for Model Dissemination Andy South, LSTM
3:00pm-4:30pm	Breakout	Serious Gaming Jonathan Bloedow, IDM
3:00pm-4:30pm	Breakout	Malaria Genetics and Parasitology Edward Wenger, <i>IDM</i> Romberto Amato, <i>University of Oxford</i> Wes Wong, <i>Harvard School of Public Health</i> TBD-RTSS, <i>Harvard School of Public Health</i> Andre Lin Ouedraogo, <i>IDM</i>
3:00pm-4:30pm	Breakout	Dengue, Chikungunya, Zika, and Aedes aegypti Alex Perkins, University of Notre Dame Quirine TenBosch, University of Notre Dame Bobby Reiner, University of Indiana Ben Althouse, IDM Michael Johansson, CDC
3:00pm-4:30pm	Breakout	Typhoid Jason Andrews, <i>Stanford University</i> Nick Feasey, <i>Liverpool School of Tropical Medicine</i>

		Paul Arora, <i>The Hospital for Sick Children, Toronto</i> Jillian Gauld, <i>IDM</i>
3:00pm-4:30pm	Breakout	Algorithms TBD
4:35pm-5:20pm	Keynote	Pete Gething, University of Oxfor
Hyatt Regency, Wedı	nesday 4/20/2016	IDM Symposium - Disease Surveillance
9:00am-10:30am	General Session	General Session 3 Melissa Penny, <i>Swiss Tropical</i> David Smith, <i>IHME</i> Mike Famulare, <i>IDM</i>
10:45am- 12:15pm	General Session	General Session 4 Joseph Eisenberg, University of Michigan Hugh Sturrock, UCSF Samson Kiware, Ifakara Health Institute
1:20pm-3:20pm	Breakout	Malaria Field Operations, Surveillance, and Vector Control TBD, University of Oxford Adam Bennett, UCSF Caitlin Bever, IDM Gerry Killeen, Ifakara Health Institute TBD, University of Notre Dame Jaline Gerardin, IDM
1:20pm-3:20pm	Breakout	Enteric Diseases Duncan Steele, BMGF Kurt Long, Swiss Tropical Dennis Chao, IDM Andrew Brouwer, University of Michigan Alicia Kraay, University of Michigan
1:20pm-3:20pm	Breakout	Vaccine-Preventable Diseases TBD
1:20am-3:20pm	Breakout	HIV Dynamics at Country-scale Steven Goodreau, University of Washington Susie Cassels, UC-Santa Barbara Guy Harling, Harvard School of Public Health Krisztina Vasarhelyi, UBC Sandy Rutherford, SFU Dan Klein, IDM

1:20pm-2:50pm	Workshop	COMPS Nick Karnik, IDM Bryan Ressler, IDM	
3:00pm-4:30pm	Workshop	EMOD Jonathan Bloedow, IDM	