



62<sup>nd</sup> ANNUAL

Epidemic Intelligence Service Conference

# INTERNATIONAL NIGHT

*Improving Health Outcomes through  
Field Epidemiology Training, Surveillance,  
and Outbreak Response*



WEDNESDAY, APRIL 24, 2013

5:30 – 10:00 pm

Crowne Plaza Ravinia  
Ravinia Ballroom  
Atlanta, Georgia, USA



Centers for Disease  
Control and Prevention  
Center for Global Health



TEPHINET  
Training Programs in Epidemiology and  
Public Health Interventions Network







## MESSAGE FROM THE SECRETARY:

In our globalized world, where contagious health threats such as polio, novel influenza, and tuberculosis can spread rapidly across international borders, every country needs a team of highly-trained epidemiologists to detect and respond effectively to outbreaks. The Field Epidemiology Training Program (FETP) deploys qualified public health professionals to investigate and respond to disease outbreaks, an essential function that provides service to ministries of health while also providing hands-on experience in field-based research methods and evidence-based decision making. FETP residents, graduates and advisors play a critical role in our mission to improve health globally and to respond to all types of national and international health threats. Working together with ministries of health and other partners, they make it possible for us to share data and ideas that can save lives and improve health outcomes both on a daily basis and in times of crisis. FETP residents are our “boots on the ground” in the ongoing battle for global health security, against not only infectious diseases, but also chronic diseases such as diabetes, heart disease and cancer. They deserve our recognition, and our thanks, for their personal courage and commitment to saving and improving lives all across the globe.



**Secretary Kathleen Sebelius**

U.S. Department of Health and Human Services





*“Field Epidemiology Training Programs (FETPs) – modeled on CDC’s EIS Program– protect people around the world by helping countries in the early identification and response to health threats. FETPs are essential to improve health around the world.”*



**Thomas R. Frieden, MD, MPH**  
Director, Centers for Disease Control and Prevention  
Administrator, Agency for Toxic Substances and Disease Registry





Dear Colleagues:

On behalf of the U.S. Centers for Disease Control and Prevention (CDC), Center for Global Health, it gives me great pleasure to welcome you to the 62nd Annual Epidemic Intelligence Service (EIS) Conference and International Night in Atlanta, Georgia. I am especially pleased to welcome our distinguished moderators, Ambassador Jimmy Kolker, Principal Deputy Assistant Secretary for Global Affairs, Office of the Secretary, U.S. Department of Health and Human Services, and Dr. Fadzilah Kamaludin, Head, Office of the Deputy Director General of Health, Malaysia, who is also the new Chair of the Advisory Board for the Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET).



Over the past year, despite ongoing public health challenges and political and economic uncertainties, working collaboratively with our partners, we have made significant progress in strengthening public health systems, building workforce capacity, and developing public health institutions that emphasize sound public health science and practices and ensure global health security. Much of our progress can be attributed to the hard work and commitment of the mentors and residents in the Field Epidemiology Training Program (FETP). They are to be commended for the inherent risks they take during the course of their work and deserve our thanks, and our respect, for their perseverance and their commitment to public health, scientific investigation, and improving health globally. Special thanks are also due to our regional partner and co-host TEPHINET, for their support of FETPs around the world, and their commitment to ensuring that all programs maintain high standards of scientific excellence.

Since 1980, through FETPs, CDC has worked with ministries of health and other partners to strengthen national and local public health systems and to address the severe shortage of skilled epidemiologists worldwide. FETPs build local, national and regional networks of public health professionals who have the necessary skills to rapidly respond to public health threats. With the continued threat and burden of infectious diseases, FETPs also play a significant role in assisting countries in meeting their core capacity requirements for surveillance and response under the International Health Regulations (IHR, 2005).

The EIS Conference and International Night are especially important because they provide a unique forum where FETP residents can formally present the results of their work on the prevention and control of communicable and non-communicable diseases and other health threats. International Night also provides an opportunity for scientists to exchange ideas and increase their knowledge of investigative methods, data analysis, and how data informs policies and programs to improve public health outcomes. It is also an opportunity for FETP residents and EIS officers to strengthen relationships, learn from each other, and build a network to call upon when facing global health challenges.

I am pleased to see improvements across the board in the abstracts, posters and photos which bring life to our scientific research and the improvements in public health that result from your work in the field. I thank the FETP residents, graduates, resident advisors and mentors for all that you do to make this program and International Night a success. Your enthusiasm and commitment are essential to the success of FETPs in their mission to build public health capacity and strengthen global health security.

Enjoy the evening!

**Nancy Messonnier, MD, MPH**

Acting Director, Division of Public Health Systems and Workforce Development and  
Division of Global Disease Detection and Emergency Response  
Center for Global Health, Centers for Disease Control and Prevention





Dear Colleagues:

**G**reetings! It is my pleasure to welcome you and all the presenters to International Night 2013 on the occasion of the 62nd Annual Epidemic Intelligence Service Conference. International Night is presented through the Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET) in collaboration with the Centers for Disease Control and Prevention (CDC), Center for Global Health, Division of Public Health Systems and Workforce Development (DPHSWD). I am very pleased that through this collaboration, we have been successful in developing well-trained field epidemiologists around the world, many of whom are now in leadership positions within the ministries of health, WHO and other well-respected health organizations.



This year, 229 abstracts, and 100 photos illustrating the scientific work of FETP residents and graduates were submitted for consideration. We are very pleased about the quality of the submissions and we appreciate the support and encouragement given to the participants by their FETP resident advisors and other mentors. Many of the photos that were submitted last year are now displayed in CDC's headquarters, posted on CDC's website and used to help educate the general public about the important work we are doing to save lives.

Despite many global challenges, I am proud of the improvements in disease detection and response that TEPHINET, CDC and more than 84 national ministries of health have achieved by working together. I am also very pleased that we have completed pilot testing of the proposed FETP accreditation process in eight countries. We are also working towards establishing and implementing quality measures to ensure that all of our programs are performing at the highest level. The standard of excellence that we uphold in field and applied epidemiology training is evident in the quality of the participants' presentations and their ability to respond effectively to health threats in their respective countries. We are developing strong public health leaders who are not only committed to improving public health, but more importantly, are trained in the technical skills necessary to manage public health threats and prevent them from spreading across borders.

On behalf of TEPHINET's Board of Directors and the Secretariat, I congratulate all the participants for their hard work and their commitment to and passion for saving lives and improving public health. I also congratulate the winner of the distinguished 15th William H. Foege Award for outstanding scientific oral presentation; the winner of the poster award for excellence in communicating scientific information; and the winners of the photo contest for illustrating field epidemiology training programs in action.

Thank you for joining us and for your unwavering support of FETPs and International Night.

**Dionisio Jose Herrera Guibert, MD, MAE, BFM, PhD**

Director

Training Programs in Epidemiology and Public Health Interventions Network



# INTERNATIONAL NIGHT



## AGENDA

5:30 pm                      **Poster Presentations**  
6:45 pm                      **Photo Contest**  
7:30 pm to 10:00 pm      **Oral Presentations**

7:30 pm to 7:40 pm

**Welcome and Introduction of Special Guests and**

**Moderators.....Dr. Linda Quick**  
*Chief, Field Epidemiology Training Program Branch  
Center for Global Health, Centers for Disease Control and Prevention*

### Moderators

**Ambassador Jimmy Kolker**

*Principal Deputy Assistant Secretary for Global Affairs  
Office of the Secretary  
U.S. Department of Health and Human Services*

and

**Dr. Fadzilah Kamaludin**

*Head, Office of Deputy Director General of Health, Malaysia  
Chair of the Advisory Board*

*Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET)*

7:40 pm to 8:40 pm

**Oral Presentations (Tanzania, Turkey, and Georgia)**

8:40 pm to 8:45 pm

**Remarks.....Dr. Thomas R. Frieden**  
*Director, Centers for Disease Control and Prevention  
Administrator, Agency for Toxic Substances and Disease Registry*

8:45 pm to 9:45 pm

**Oral Presentations (Pakistan, South Africa, and China)**

9:45 pm to 9:50 pm

**Closing Remarks.....Dr. Enrique T. Ona**  
*Secretary of Health, Philippines*

9:50 pm to 10:00 pm

**Presentation of Awards.....Dr. Dionisio Jose Herrera Guibert**  
*Director, TEPHINET*





## POSTER PRESENTERS

**Tony Fredrick – India.** Target Intervention to Increase Measles Vaccination Coverage by Identifying Low-Coverage areas using Lot Quality Assurance Sampling, Chennai, India, 2012.

**Joyce Njeri Wamicwe – Kenya.** Predictors of HIV Antiretroviral Treatment Failure among Patients Attending the Comprehensive Care Clinic at Rift Valley Provincial General Hospital – Kenya, 2012.

**Sebastian Haller – Germany.** E-mail Survey as a Rapid Tool to Confirm Frozen Strawberries as the Vehicle of the Largest Foodborne Norovirus Outbreak Ever Reported in Germany, 2012.

**Liangliang Cui – P. R. China.** An Investigation on Outbreak of Cutaneous Anthrax Attributed to Butchering a Sick Cow in Jiangsu Province, China, 2012.

**Zafar H. Maken – Pakistan.** An Outbreak of Conjunctivitis Due to Bacterial Streptococcus Pneumoniae — District Sargodha, Pakistan, 2010.

**Maria L. Müller – Guatemala.** Imported Malaria in Guatemalan Soldiers Returning from the Democratic Republic of the Congo – Guatemala, 2011.

**Pugie T. Chimberengwa – Zimbabwe.** Schistosomiasis Outbreak Investigation, Empandeni Ward, Mangwe District, Matabeleland South Province, Zimbabwe, June 2012.

**Dimas Panduasa – Indonesia.** A Case-Control Study for Diphtheria in East Java, Indonesia, 2012.

**Abisola M. Oladimeji – Nigeria.** Prevalence and Factors Associated with Hypertension and Obesity among Civil Servants in Kaduna, Kaduna State — June 2012.

**Patricia del Carmen Bonequi Alvarado – Mexico.** Risk Factors for Gastric Cancer in Latin America: A Meta-Analysis.

**Alethea R. De Guzman – Philippines.** A Nested Case-Control Study Among Elementary Students in A Public School on Firecracker Use During the New Year Celebration – Philippines, 2012.

**Thanawadee Thantithaveewat – Thailand.** Risk Factors of Surgical Site Infection in Hospital A, Bangkok, Thailand, August – September 2011.

**Alphonse Rukundo – Rwanda.** Risk Factors of Underweight Among Under-Five Years Children in Rwanda, 2010.

**Maral Aksakova – Kazakhstan.** Factors Affecting the Utilization of Antenatal Care Services among Pregnant Women—Ashgabat, Turkmenistan, 2010.

**Haftom Taame – Ethiopia.** Neisseria Meningitides Outbreak-Harenabuluk District, Ethiopia, 2011.





## ORAL PRESENTERS

- 7:40 pm **Preetha Iyengar – Tanzania.** Prevalence and Geographic Distribution of Nodding Syndrome — Kilombero and Ulanga Districts, Tanzania, 2012.
- 8:00 pm **Orhun Kalkan – Turkey.** Outbreak of *Bacillus cereus* food-poisoning with a fatality after a feast— Bagli Village, Bursa Province, Turkey, September 2012.
- 8:20 pm **Archil Navdarashvili – Georgia.** Human cutaneous anthrax outbreak associated with contact of livestock, a case-control study, Georgia, 2012.
- 8:45 pm **Zakir Hussain – Pakistan.** Outbreak Investigation of Typhoid fever in Village Kuwardu, District Skardu, Gilgit-Blatistan (G-B), Pakistan, 2012.
- 9:05 pm **Mazvita N. Muropa – South Africa.** Antiretroviral therapy initiating regimens and discontinuation patterns — Medunsa National Pharmacovigilance Centre cohort, South Africa, 2004 -2011.
- 9:25 pm **Man Wang – P. R. China.** Mumps attenuated live vaccine effectiveness: 1:1 matched case-control study —Zhongshan, China, 2011-2012.





# WILLIAM H. FOEGE AWARD RECIPIENTS

## 2000-2012

### 2012 NIGERIA

L. Ibrahim, Factors Associated with Interruption of Treatment among Pulmonary Tuberculosis Patients in Plateau State – Nigeria, 2011.

### 2011 INDIA

P. Baral. Hepatitis outbreak caused by contaminated Tamarind water served in a mobile food kiosk in an affluent urban school of Mayurbhanj, Orissa, India, September 2010.

### 2010 CHINA

K. Han. Shigellosis outbreak in an elementary school- Sichuan Province, China, June 7-16, 2009.

### 2009 AUSTRALIA

A. Jardine et al. The impact of pneumococcal conjugate vaccination on rates of hospitalization for pneumonia, Australia, 1998–2007.

### 2008 CENTRAL ASIA

G. Sailybayeva et al. HIV outbreak investigation among hospitalized children in Shymkent City, Southern Kazakhstan, June–November 2006.

### 2007 CENTRAL ASIA

M. Dehkanova et al. Outbreak investigation of leptospirosis in Fayeabad district, Tajikistan, April 14–22, 2006.

### 2006 ITALY

M. Sala et al. High-level beta-hexachlorocyclohexane contamination in dairy farms in the Sacco river valley, Latium, Italy, 2005.

### 2005 CHINA

Y. Zhang et al. Large outbreak of waterborne paratyphoid fever attributed to a contaminated well in a rural junior high school in Guangxi Province, China, 2005.

### 2004 BRAZIL

L. Daufembach et al. Barium toxicity after exposure to contaminated contrast solution in Goiás State, Brazil, 2003.

### 2003 EPIET

U. Dürr et al. Outbreak of aseptic peritonitis among peritoneal dialysis patients associated with the use of icodextrin in Extremadura, Spain, January–April 2002.

### 2002 BRAZIL

T. Lanzieri et al. Congenital rubella syndrome following a community-wide rubella outbreak in Rio Branco, Acre, Brazil, 2000–2001.

### 2001 CANADA

E. Galanis et al. Oculo-respiratory symptoms associated with influenza immunization in Canada, 2000.

### 2000 SPAIN

T. Pelayo et al. Study of two outbreaks of mumps in children vaccinated with the Rubini strain in Spain: Estimation of vaccine efficacy, 2000.



# THANK YOU



The International Night committee would like to thank all of the oral, poster and photo contest participants for their presentations, contributions and efforts to make International Night a success. We also thank the resident advisors, mentors, abstract reviewers, photo contest judges, and volunteers for their time, expertise and commitment to supporting this event and FETPs around the world. We especially thank the Taskforce for Global Health for their generous contributions and ongoing support of our global health activities.

## EIS International Night Committee

### **Robert Fontaine, MD, MSc**

Deputy Director for Science and Program  
Division of Public Health Systems and Workforce Development  
Center for Global Health, Centers for Disease Control and Prevention

### **Dionisio Jose Herrera Guibert, MD, MAE, BFM, PhD**

Director  
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### **Linda Quick, MD, MPH**

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### **Ruth Cooke Gibbs, MIS, MPH**

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### **Jude Wilson, MA**

Health Communication Specialist  
Division of Public Health Systems and Workforce Development  
Center for Global Health, Centers for Disease Control and Prevention



**I**nternational Night is hosted by the Centers for Disease Control and Prevention, Division of Public Health Systems and Workforce Development (DPHSWD) and the Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET).

For more information about our programs, please contact:

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For additional information, please visit the following websites:

CDC, Division of Public Health Systems and Workforce Development (DPHSWD)

<http://www.cdc.gov/globalhealth/dphswd/>

Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET)

[www.tephinet.org](http://www.tephinet.org)

