

# International Training Course on the Essential Elements of Nuclear Security

June 1-12, 2015

*Hosted By:* International Programs Section  
Argonne National Laboratory  
[international.anl.gov](http://international.anl.gov)





# THE PURPOSE

# Training

## PURPOSE

In-Depth Understanding of the Essential Elements of Nuclear Security as described in the IAEA Nuclear Security Fundamentals publication *Objective and Essential Elements of a State's Nuclear Security Regime* (IAEA Nuclear Security Series No.20, Vienna, 2013)

## FOCUS

- International and national legal framework for nuclear security
- Understanding methodologies to assess threats and risks
- Transport security
- Assess threats and risks
- Security of nuclear and other radioactive material, associated facilities, and associated activities
- Detection and response
- Combatting illicit trafficking
- International cooperation and assistance



National Security is a national responsibility.  
(National Nuclear Research Institute, GAEC,  
Accra, Ghana, January 2013)  
Photo Credit: Dean Calma, IAEA

# THE COURSE

# Welcome to Argonne National Laboratory

Introduction  
to Argonne



Safety at  
Argonne



# The Lecturers and Staff

Course Leaders: Diana Naples, Argonne National Laboratory  
Chuck Roche

Program Manager: Sunaree Hamilton, Ph.D., Argonne National Laboratory



Kevin Barnes



Marc Cichon



Kaitlyn De Laurentis



Rhonda Evans



Benjamin Garrett



Jure Kutlesa



Michael LaFranzo



Stephen LaMont



Melinda Lane



Elly Melamed





# The Lecturers and Staff (cont.)



Frank (Eugene) Moore



Carlos Nogueira de Oliveira



Craig Patterson



Robert H. Wagner



Jon Warner



# Diana Naples, Argonne National Laboratory

Course  
Leader



# Charles Roche

Course  
Leader



# Kaitlyn De Laurentis, Argonne National Laboratory

Site  
Security  
Briefing



# Rhonda Evans, International Atomic Energy Agency

Nuclear  
Security

International  
Legal  
Instruments

Detection  
Architecture

Incident and  
Trafficking  
Database

Security of  
Radioactive  
Sources



# Carlos Nogueira de Oliveira, International Atomic Energy Agency

Nuclear  
Security  
Threats

Nuclear  
Security  
Systems

Planning,  
Preparedness,  
and Response



# Melinda Lane, Lawrence Livermore National Laboratory

Threat  
Assessment &  
Define a DBT



# Jon Warner, Argonne National Laboratory

Vulnerability  
Assessment





# Robert Wagner, Loyola University Medical Center

Security & Control  
of Radioactive  
Materials at  
hospitals



# Elly Melamed, US Department of Energy

Security Concerns  
for Radioactive  
Material &  
Borderline Security



# Marc Cichon, Loyola University Medical Center

Emergency  
Medical  
Planning for  
Incidents



# Benjamin Garrett

Intro. To  
Radiological  
Crime Scene  
Management



# Frank Moore, Argonne National Laboratory

Radiation  
Detection  
Fundamentals &  
Detection Systems



# Kevin Barnes, Idaho National Laboratory

Intro. To  
Security of  
Information in  
Nuclear Security

Intro to  
Computer  
Security in  
Nuclear Security



# Stephen LaMont, US Department of Energy

Intro. To Nuclear  
Forensics in  
Support of  
Investigations



# Craig Patterson, Argonne National Laboratory

Emergency  
Medical  
Response





# Not Pictured - USNRC (US Nuclear Regulatory Commission)

Michael  
LaFranzo

Jure  
Kutlesa



# THE PARTICIPANTS



Luis Filipe T.  
Cardoso  
Angola





Missa  
Millogo  
Burkina Faso





Delwende  
Nabayaogo  
Burkina Faso





Ollo Bertrand  
Youl  
Burkina Faso





Yolanda  
Huguette  
Ebele  
Yigbedeck  
Cameroon





Fokou  
Mvoufo  
Cameroon







Emmanuel  
Kazinguvu  
Atibu  
**Democratic  
Rep. of the  
Congo**





François  
Kazadi  
Kabuya  
**Democratic  
Rep. of the  
Congo**





Vincent Lukanda  
Mwamba  
**Democratic Rep. of  
the Congo**





Abdoulrezak  
Oumer Jeju  
**Ethiopia**





Feseha  
Yetagsu  
Manbegrot  
**Ethiopia**





Iwan Heru  
Purnomo  
Indonesia





# Sawiyah Sawiyah Indonesia





Ahmad  
Ciptadi  
Syuryavin  
Indonesia







Muhammad  
Achour  
Lebanon





Chimwemwe  
Raymond  
Gamulani  
Malawi





Tiyese  
Chiumbuzo  
Malawi





Jemal Abde  
Nasser Ahmed  
**Mauritania**





Souleimane  
El Jeid  
Mauritania





Sid' Ahmed  
Elmane  
Mauritania





Manuel  
Chenene  
**Mozambique**





Arão  
Boaventura  
Macuacua  
**Mozambique**







Amos Genito  
Maure  
Mozambique





# Edemanwan Bassey Ita Nigeria





# Osume Okiti Nigeria





# Francois Freminot Seychelles





Janette  
Dewea  
Seychelles





# Sugeeshwara Gunaratna Sri Lanka





Prageeth Indika  
Kumara  
Kadadunna  
Koralalage  
Sri Lanka





# Sondou Baka Togo







# Rosemary Byanyima Uganda





Frank  
Mwesigwa  
Uganda





Vladyslav  
Borzenkov  
Ukraine





Pavel  
Kolpakov  
Ukraine





Viktor  
Shulyak  
Ukraine





IAEA - Argonne

International Seminar on the Essential Elements of  
Nuclear Security



<http://www.facebook.com/IPSection>

Want to see more photos from the course?

Visit and “like” our Facebook page.



THANK YOU