

# Fellowship Training on Accidents and Audits in Radiotherapy with an Emphasis on Peer Review (Internal Auditing) in Medical Physics

23-27 March 2015

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





# THE PURPOSE

# Fellowship Training

IAEA PROJECT

Regional Project RAS0073 "Supporting Human Resource Development and Nuclear Technology"

## USES

- Identify and manage risk in radiotherapy medical physics
- Handle documentation
- Report and review accidents and near-incidents
- Develop procedures based on lessons learned
- Perform regular internal peer review and auditing



Korle Bu Teaching Hospital, 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 Leader: Francisco Aguirre, Argonne National Laboratory

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



Beth M. Beadle



Derek Brown



Peter Dunscombe



Suzanne B. Evans



Debbie Gilley



Paul Jursinic



Sasa Mutic



Todd Pawlicki



Yakov Pipman



Ramon Alfredo Carvalho Siochi





# Francisco Aguirre, Argonne National Laboratory

Course Introduction

Accidents in Radiotherapy

Quality Audit Programs



# Yakov Pipman, YMPhysics

Reporting of  
Accidents  
and Incidents

The  
Radiotherapy  
Process



# Suzanne B. Evans, Yale University School of Medicine

Clinical Impact  
of Radiotherapy  
Incidents



# Peter Dunscombe, University of Calgary

Introduction  
to Quality  
and Safety

AAPM'S  
Safety Profile  
Assessment

Quality  
Management

Safety  
Culture



# Derek Brown, University of California, San Diego

Process Maps

Failure Modes  
and Effects  
Analysis



Sasa Mutic,  
Washington  
University School  
of Medicine

Checklists



Todd Pawlicki,  
University of  
California, San  
Diego

Root Cause  
Analysis

Statistical  
Process  
Control



# Debbie Gilley, IAEA

Improvements  
on Safety

IAEA Audits  
and Accident  
Prevention





# Beth M. Beadle, MD Anderson Cancer Center

Improving Quality  
and Safety: The  
Clinician's  
Perspective



# Paul Jursinic, West Michigan Cancer Center

Staffing Levels,  
Training, &  
Communication

QA  
Management  
Program



# THE PARTICIPANTS



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REPUBLIC OF  
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## IAEA - Argonne

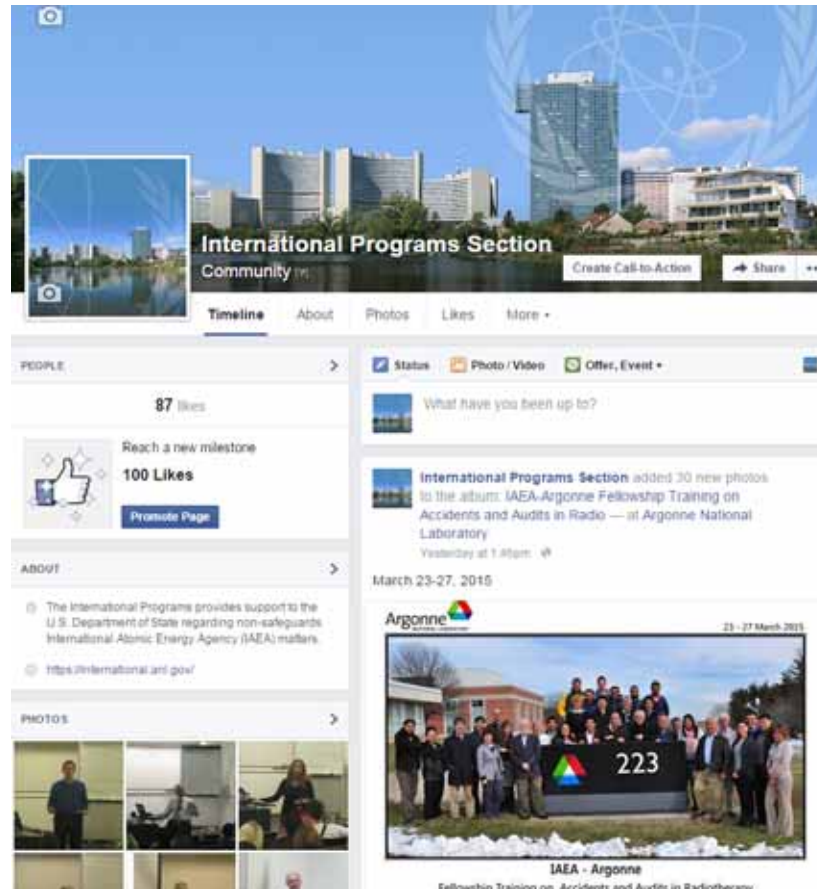
Fellowship Training on Accidents and Audits in Radiotherapy  
with an Emphasis on Peer Review



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

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THANK YOU