Nuclear Nonproliferation, Safeguards, and Security in the 21st Century
June 13-24, 2022

Course Coordinators:

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2022 Scholar-in-Residence:

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Monday, June 13

0930-1000 Course Orientation and Welcome
1000-1115 Introductions and Icebreaker
1145-1300 Global Context for Nonproliferation  
Speaker TBD
1300-1400 Break
1400-1515 Fundamentals of Nuclear Technologies  
Speaker TBD
1530-1600 Day 1 Recap

Tuesday, June 14

0930-1000 Morning poll
1000-1115 A Brief History of the International Atomic Energy Agency (IAEA)  
Speaker TBD
1145-1300 The Treaty on the Non-Proliferation of Nuclear Weapons (NPT)  
Speaker TBD
1300-1400 Break
1400-1515 Nuclear Tests & Nonproliferation  
Speaker TBD
1530-1600 Day 2 Exercise Assignment

Wednesday, June 15

0930-1000 Day 2 Exercise Review
1000-1115 International Nuclear Safeguards Basics  
Speaker TBD
1145-1300 Introduction to the Model Additional Protocol  
Speaker TBD
1300-1400 Break
1400-1515 State Level Concept Implementation
Thursday, June 16

0930-1000  Day 3 Exercise Review
1000-1115  IAEA Ops Divisions and Verification Techniques  
           Speaker TBD
1145-1300  State Evaluation & Acquisition Pathway Analysis  
           Speaker TBD
1300-1400  Break
1400-1600  Acquisition Pathway Analysis Exercise

Friday, June 17

0930-1000  Acquisition Pathway Analysis Exercise Review
1000-1115  Complementary Access to Material Balance Areas  
           Speaker TBD
1145-1300  Open Source Information Collection and Analysis for IAEA Safeguards  
           Speaker TBD
1300-1400  Break
1400-1515  Open Source Analysis Exercise
1530-1600  APEX Introductory Exercise (APA on Freedonia)

Monday, June 20

BNL Laboratory Holiday – Juneteenth (Observed)  
No class.

Tuesday, June 21

0930-1000  APEX Introductory Exercise discussion
1000-1115  Panel Discussion: The Future Evolution of the Treaty Regime for Nonproliferation and Multilateral Disarmament

1145-1300  The United States Support Program to IAEA Safeguards
            Speaker TBD

1300-1400  Break – Optional Brownbag (NGFP Program)

1400-1515  Nuclear Threats and Human Rights
            Speaker TBD

1530-1600  APEX: Introduction to the BLIP

2000-2200  Social Event TBD (Tentative)

**Wednesday, June 22**

0930-1000  Review exercise/Q&A

1000-1115  Proliferation Financing
            Speaker TBD

1145-1300  Implementation of IAEA Safeguards in the US
            Speaker TBD

1300-1400  Break

1400-1430  Introduction to the Additional Protocol Exercise

1445-1615  Additional Protocol Exercise (APEX): BLIP

1615-1630  Break

1630-1700  BLIP Discussion

**Thursday, July 15**

0900-0930  APEX Setup

0930-1100  APEX -- Virtual Site Tours

1115-1245  APEX -- Virtual Site Tours (cont.)

1245-1315  Break
1315-1515 APEX -- Group Work Time
1530-1700 APEX -- Group Presentations

**Friday, June 24**

0930-1000 APEX presentations cont (if needed)
1000-1115 Managing Nuclear Disorder in the 21st Century
*Speaker TBD*
1145-1300 Current Issues in Nonproliferation: Iran & DPRK
*Speaker TBD*
1300-1400 **Break**
1400-1515 Proliferation Risks for the Future
*Speaker TBD*
1530-1600 **Closing**