



Career Opportunities for Graduates in Nuclear Safety
Sao Paulo, Brazil
December 10-12, 2018

The US Department of State (DOS) Partnership for Nuclear Security (PNS), Texas A&M University and Instituto de Pesquisas Energéticas e Nucleares (IPEN) will co-host a workshop “*Career Opportunities for Graduates in Nuclear Safety*” related to the contribution to safety and security culture in the nuclear area. Lectures, group exercises, and tabletop exercises will be used to foster discussion and demonstrate concepts.

| Day One: Monday, 10 December 2018 | | |
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| 08:30 - 09:00 | Registration, Opening and Introduction | All / Dr. Wilson A. P. Calvo |
| 09:00 - 09:15 | Welcome address/ Workshop Objectives | Dr. Sarkis/Dr. Delvonei - IPEN |
| 09:15 - 09:30 | Participant Introductions | All |
| 09:30 - 11:00 | Recommended Academic Curriculum in Nuclear Security: Overview and Practical Aspects of Implementation (90 min) | Dr. Dmitry Nikonov/IAEA |
| 11:00 - 11:15 | Coffee Break | |
| 11:15 - 12:00 | Introduction to Nuclear Security Culture | Delvonei de Andrade /IPEN |
| 12:00 - 13:00 | Lunch | |
| 13:15 - 14:15 | Threats to Nuclear Security and Consequences | Dr. Craig Marianno /A&M |
| 14:15 - 15:15 | Facility Characterization and Target Identification | Dr. Craig Marianno /A&M |
| 15:15 - 15:30 | Coffee Break | |
| 15:30 - 16:30 | Insider Threat | Dr. Craig Marianno /A&M |
| 16:30 - 17:00 | Wrap-up Discussion | All |



| Day Two: Tuesday, 11 December 2018 | | |
|---|---|--|
| 09:00 - 10:00 | Insider Threat mitigation | Dr. Craig Marianno /A&M |
| 10:00 -11:00 | Introduction to insider threat exercise /Insider threat Exercise | |
| 11:00-11:15 | Coffee Break | |
| 11:20- 12:20 | Human Reliability program | Eletronuclear) To be confirmed or Dr. Craig Marianno /A&M |
| 12:30 - 13:30 | Lunch Break | |
| 13:45 - 14:45 | Unusual Behavior Observation | (CTMS) To be confirmed or Dr. Craig Marianno /A&M |
| 14:50 - 15:45 | Nuclear Materials Control and Accountability | (ABACC – to be confirmed) |
| 15:45 - 16:00 | Coffee Break | |
| 16:00 - 17:00 | Brazilian Legal approach to Nuclear Forensic Investigation/ Forensics, Identifying materials out of regulatory control | Dr. Osvaldo Negrini /IPEN Dr. Sarkis/IPEN |



| Day Three: Wednesday, 12 December 2018 | | |
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| 09:00 - 10:00 | Nuclear Facility Security Design | A&M |
| 10:15 - 11:15 | Consequence minimization and Managements | A&M |
| 11:30 - 12:45 | Lunch Break | |
| 12:45 - 13:45 | Human Resource Development in Nuclear Security: Overview and IAEA Assistance (60 min) | Dr. Dmitry Nikonov/IAEA |
| 13:45 - 15:00 | Round Table " Career Opportunities for Graduates in Nuclear Security" | Eletronuclear, AMAZUL, CTMS, IAEA, IPEN, INB |
| 15:00 - 15:30 | Wrap-up Discussion and Presentation of Certificates | All |