

**TC Project**

INT/9183

**Event Title:**

**Interregional Workshop on Optimization of Technology Selection  
for Decommissioning of Large and Small Nuclear Installations**

**Hosted by:**

The Government of the United States of America

**Through the:**

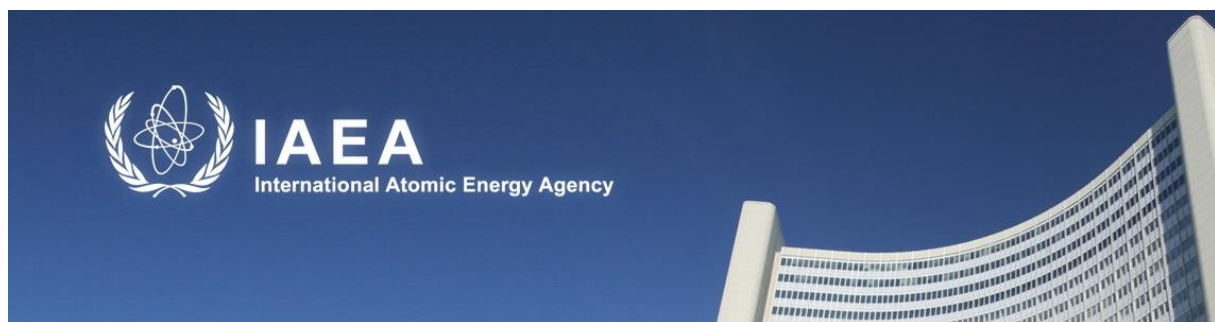
Florida International University's Applied Research Center

Miami, Florida

**Dates:**

9 -13 September 2019

Link to website: <https://arc.fiu.edu/2019-iaea-workshop/>



## Day 1: Monday, 9 September 2019

**Location:** MARC Pavilion (FIU Main Campus) 10880 SW 16<sup>th</sup> St., Miami, FL 33199

### Welcome and Opening Speeches

<b>10:00</b>	<b>Welcome and Introduction to Florida International University</b> Dr. William Anderson, Jr., Office of Research and Economic Development
<b>10:20</b>	<b>Welcome and Introduction to FIU's Applied Research Center</b> Dr. Leonel LAGOS
<b>11:00</b>	<b>Welcome and Introduction to the Training course</b> Mr. Patrick O'SULLIVAN
<b>11:40</b>	<b>Practicalities/Logistics/FAQ's</b> Dr. Leonel LAGOS/Ms. Gloria DINGELDEIN
<b>12:00</b>	<b>Lunch [FIU's 8<sup>th</sup> Street Café – FIU Main Campus inside the Graham Center]</b>

### Introductory Presentations

<b>13:00</b>	<b>Session opening</b>
<b>13:10</b>	<b>ARC'S D&amp;D Experience Across the DOE Complex and Commercial Nuclear sites</b> Dr. Leonel LAGOS
<b>13:40</b>	<b>ARC Deactivation &amp; Decommissioning (D&amp;D) Research</b> Mr. Joseph SINICROPE
<b>14:20</b>	<b>Coffee Break</b>
<b>14:40</b>	<b>IAEA perspectives on Implementation of Decommissioning Projects</b> Mr. Patrick O'SULLIVAN
<b>15:20</b>	<b>Digitalization and robotics for Nuclear Decommissioning</b> Dr. István SZŐKE
<b>16:20</b>	<b>Regional Center for Nuclear Education &amp; Training – Technician Training for the Nuclear Industry</b> Dr. Kevin COOPER
<b>16:40</b>	<b>Photo Opportunity and Adjourn &amp; Transition to Reception</b>
<b>17:30</b>	<b>Hospitality Event at FIU's Faculty Club in the Graham Center, Room 118</b>

## Day 2: Tuesday, 10 September 2019

Location: 10555 W. Flagler Street, Room EC 3930 (Conference Room), Miami, FL 33174

<b>9:00</b>	<b>Session opening</b>
<b>9:10</b>	<b>The D&amp;D Knowledge Management Information Tool (KM-IT) platform for Nuclear Decommissioning – showcasing the development and framework of the KM-IT system</b> Dr. Himanshu UPADHYAY
<b>10:20</b>	<b>Coffee Break</b>
<b>10:40</b>	<b>Competence mapping and workforce planning for decommissioning</b> Mr. Franz BORRMANN
<b>11:10</b>	<b>Advanced information management systems</b> Mr. Franz BORRMANN
<b>11:40</b>	<b>Lunch [EC 2185/EC2186 – ARC Conference Rooms]</b>
<b>12:40</b>	<b>Innovative digital techniques for decommissioning – Example of ongoing work on automation of the decontamination process</b> Mr. Franz BORRMANN
<b>13:20</b>	<b>Dexterous Robotic Manipulators and Exoskeletons for Glovebox Use in Nuclear Waste Sites</b> Dr. Aparna Aravelli
<b>14:00</b>	<b>Decommissioning Experiences - a Typical Small Facility &amp; Some Overall Key Lessons Learned Going Forward</b> Mr. Lawrence E. (Larry) BOING, Argonne National Laboratory
<b>15:00</b>	<b>Coffee Break</b>
<b>15:20</b>	<b>ARC Lab Tours and Technology Demonstrations:</b> <ul style="list-style-type: none"> <li>• GIS/Modelling Lab (Mrs. Angelique Lawrence)</li> <li>• Cyber Lab (Dr. Himanshu Upadhyay)</li> </ul>
<b>17:00</b>	<b>Adjourn</b>

## Day 3: Wednesday, 11 September 2019

Location: 10555 W. Flagler Street, Room EC 3930 (Conference Room), Miami, FL 33174

<b>9:00</b>	<b>Session opening</b>
<b>9:10</b>	Introduction in radiation protection planning, presentation Mr. Franz BORRMANN
<b>9:50</b>	<b>Group exercise</b> – including preparation of Monte Carlo simulation in Excel Mr. Franz BORRMANN
<b>10:50</b>	<b>Coffee Break</b>
<b>11:00</b>	<b>Group exercise</b> – including preparation of Monte Carlo simulation in Excel Mr. Franz BORRMANN
<b>11:50</b>	<b>Lunch [EC 2185/EC2186 – ARC Conference Rooms]</b>
<b>12:50</b>	<b>3D radiological modelling techniques</b> Dr. István SZŐKE
<b>13:50</b>	<b>Application of 3D radiological modelling in digital support systems – the VRdose family</b> Dr. István SZŐKE
<b>14:50</b>	<b>Coffee Break</b>
<b>15:10</b>	<b>Interpretation and preparation of presentation</b> Mr. Franz BORRMANN
<b>16:10</b>	<b>Roundup discussion summarising the approaches documentation of results in IDN-wiki.</b> Franz BORRMANN
<b>17:00</b>	<b>Adjourn</b>

## Thursday, 12 September 2019

Location: 10555 W. Flagler Street, Room EC 3930 (Conference Room), Miami, FL 33174

### Day 4

<b>9:00</b>	<b>Session opening</b>
<b>9:10</b>	<b>Human and organizational issues in decommissioning – Knowledge Management aspects for decommissioning, considerations on IT systems</b> Mr. Franz BORRMANN
<b>10:10</b>	<b>Coffee Break</b>
<b>10:20</b>	<b>Training session: AI &amp; Big Data Applications to D&amp;D</b> Dr. Himanshu UPADHYAY
<b>11:20</b>	<b>ASTM International E10.03 standards development for D&amp;D</b> Mr. Joseph SINICROPE
<b>11:50</b>	<b>Lunch [EC 2185/EC2186 – ARC Conference Rooms]</b>
<b>12:50</b>	<b>Research programme into decommissioning and applications by IFE</b> Dr. István SZŐKE
<b>13:50</b>	<b>KM-IT Fixative Mobile Application Development</b> Mr. Walter QUINTERO
<b>14:20</b>	<b>Autonomous Radiation Mapping Using UGV</b> Mr. Anthony Abrahao
<b>14:50</b>	<b>Robotics Technologies for Tanks, D&amp;D and other Applications</b> Dr. Dwayne McDANIEL
<b>15:20</b>	<b>Group discussion with Mr. Franz BORRMANN and coffee</b>
<b>17:00</b>	<b>Adjourn</b>

## Friday, 13 September 2019

Location: 10555 W. Flagler Street, Room EC 3930 (Conference Room), Miami, FL 33174

### Day 5

<b>9:00</b>	<b>Session opening</b>
<b>9:10</b>	<p><b>ARC Lab Tours and Technology Demonstrations:</b></p> <ul style="list-style-type: none"> <li>• <b>Robotics Lab: Pipeline Crawlers, Mini Rover, Wall Crawler (Dr. Dwayne McDaniel and Mr. Mackenson Telusma)</b></li> <li>• <b>Robotics Platforms and LiDAR Technology for Surveillance &amp; Maintenance- High Bay (Mr. Anthony Abrahao)</b></li> <li>• <b>Rad Lab/Outdoor Facility (Dr. Yelena Katsenovich/Mr. Joe Sinicrope)</b></li> </ul> <p>ARC Staff &amp; Students</p>
<b>11:10</b>	<b>Group discussion</b>
<b>11:50</b>	<b>Closure of the workshop</b>
<b>12:00</b>	<b>Adjourn</b>

### **Shuttle Schedule:**

Transportation to and from the workshops will be provided by FIU's CATS Shuttle Service for each day of the workshop, from the DoubleTree by Hilton Miami Doral 10250 NW 19th St, Doral, FL 33172, to FIU and back. Meeting point will be hotel's lobby.

**9/9/19 (Monday):** 9:30 am (departing the DoubleTree, main entrance)

**9/9/19 (Monday):** 7:30 pm (departing FIU between the Blue and Gold Parking Garage)

**9/10-13/19 (Tuesday-Friday):** 8:30 am (departing the DoubleTree by the main entrance)

**9/10-12/19 (Tuesday-Thursday):** 5:15 pm (Departing FIU Engineering Center, North side of Main Entryway)

**9/13/19 (Friday):** 12:30 pm (Departing FIU Engineering Center North Side of Main Entryway)