



2019
RAMP

CLOSING CEREMONY

Remarks

- John Tomon, Chief Radiation Protection Branch
 - Insights from this meeting
- Vered Shaffer and Stephanie Bush-Goddard, RAMP Program Managers
 - Thanks!
- Certificates
- Group Pictures



RAMP Users' Meetings

2015 1st RAMP User Meeting – October 2015

2016 RAMP Users' Meetings

- Pretoria, South Africa – May 2016
- Rockville, MD – October 2016

2017 RAMP Users' Meeting

- Taipei, Taiwan – April 2017
- Rockville, MD – October 2017

2018 RAMP Users' Meeting

- Abu Dhabi, UAE – March 2018
- Ottawa, Canada – October 2018

2019 RAMP Users' Meeting

- Rockville, MD – October 2019

2020 RAMP User's Meeting

- TBD – Spring 2020



2019 RAMP Meeting



 **U.S.NRC**
United States Nuclear Regulatory Commission
Protecting People and the Environment

Photos from
2019 RAMP Meeting

Welcome & Opening Session





Non-LWR
Meeting



USNRC



What is RAMP?/Need for RAMP

Computer Code Management Program:

- Streamline updates/ recognized code issues
- Incorporating the latest accepted state of the art models
- Prioritize technical updates
- Achieve consistency in documentation
- Fiscally responsible by leveraging group dynamics
- Implement centralized and consistent management and control structure
- Leverage the NRC expertise in member country activities
- Customer relationship management
- Obtain user-endorsed roadmap for codes

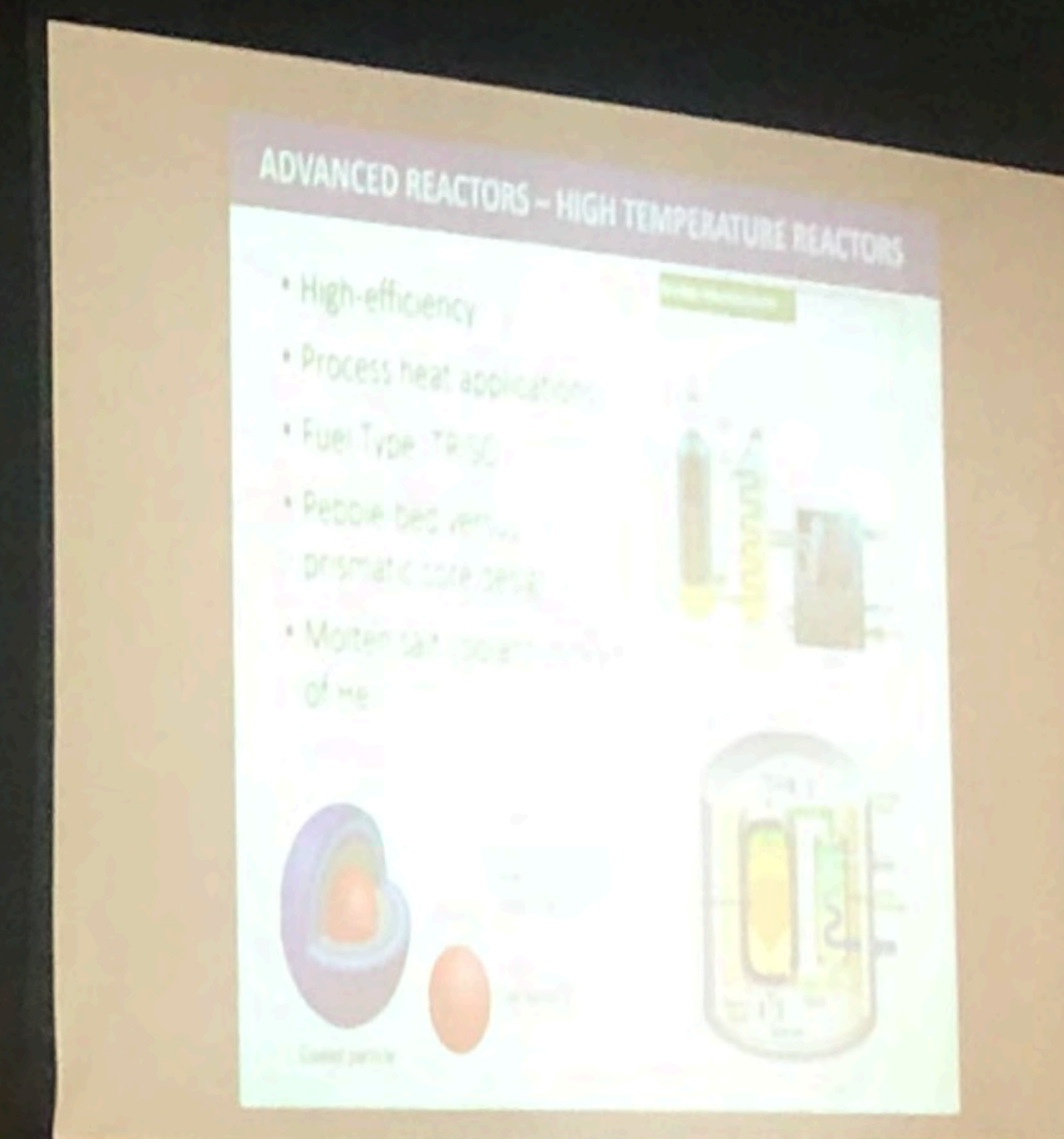
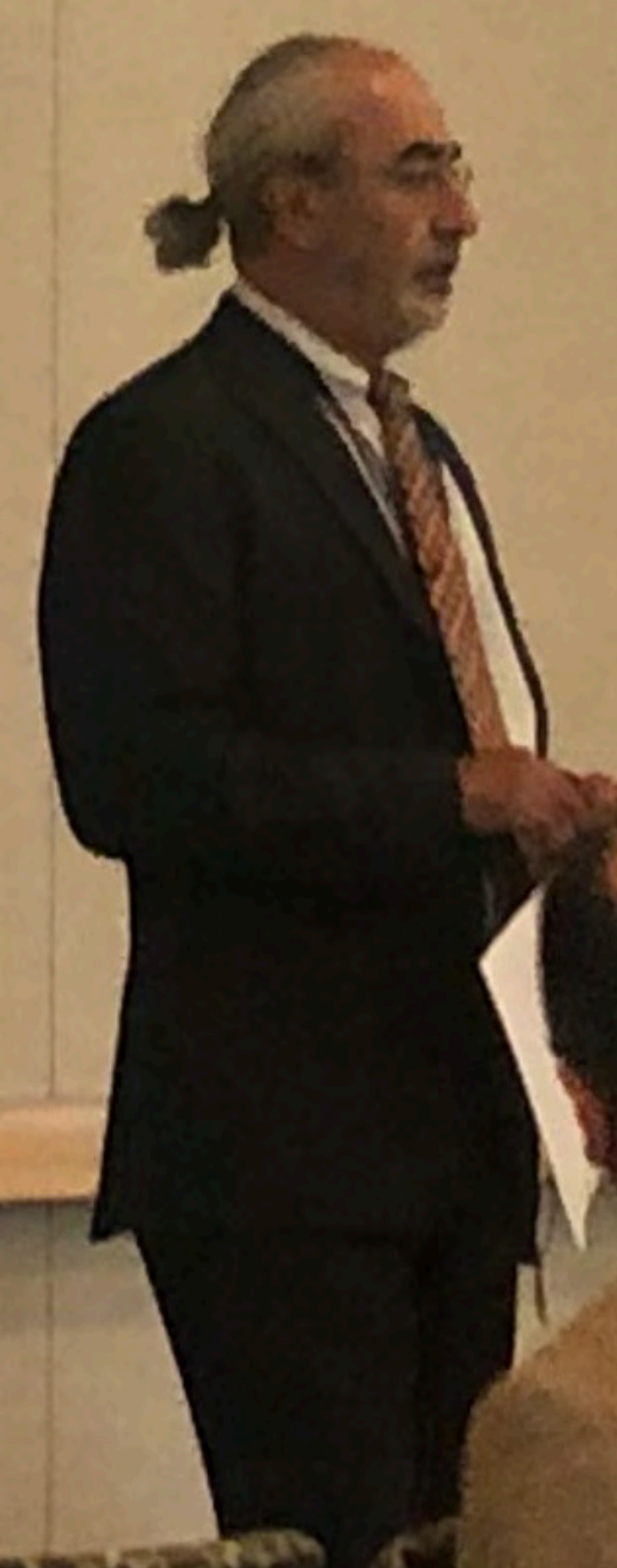


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What is RAMP?/Need for

Computer Code Management Program:

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RASCAL

Radiological Assessment System for Consequences

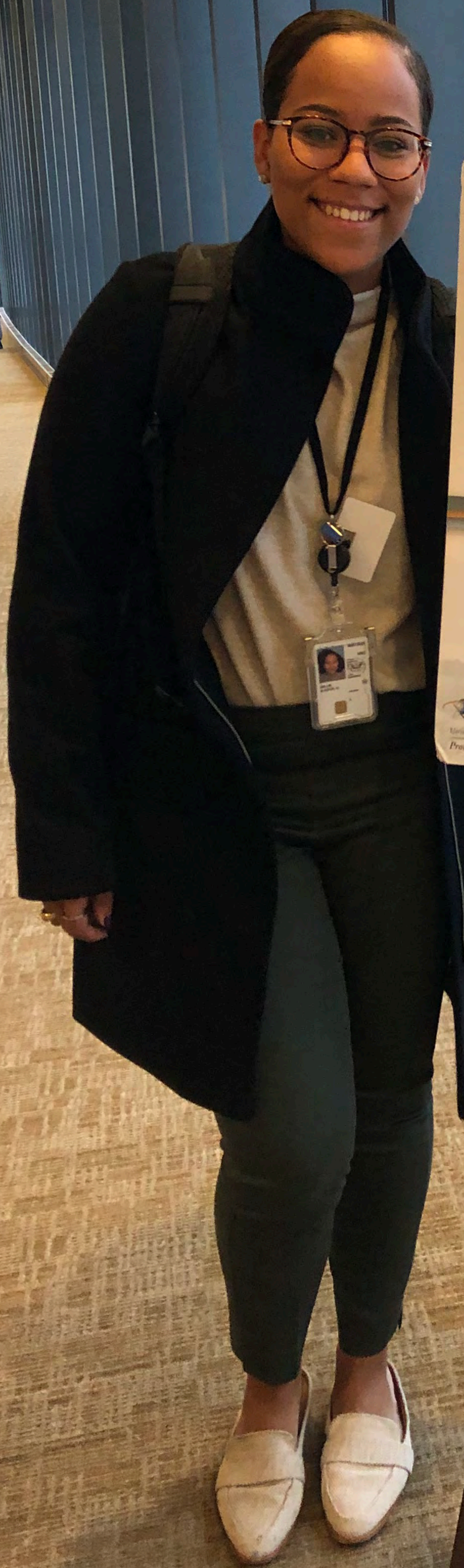
- Fast running software used in radiological incidents to assess off-site dose consequences.
- Provides response organizations with pre-release and/or plume phase of radiological release to atmosphere; to help inform or evaluate protective actions.
- **What's New? RASCAL 5.0: Summer 2020**
 - Integrates MetFetch and surface roughness and topography generating tools into the GUI
 - New charting and mapping features
 - Demo of 5.0 this week



Technical Sessions







VARSKIN
1C03/05



U.S. NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

le 4

- Liquid contamination on a lab coat
- How do we treat the lab coat?
 - As a source? As a shield?
- Comparison to an electron dose-rate factor from the literature (10%)
- Electron dose spans an order of magnitude depending on geometry assumptions



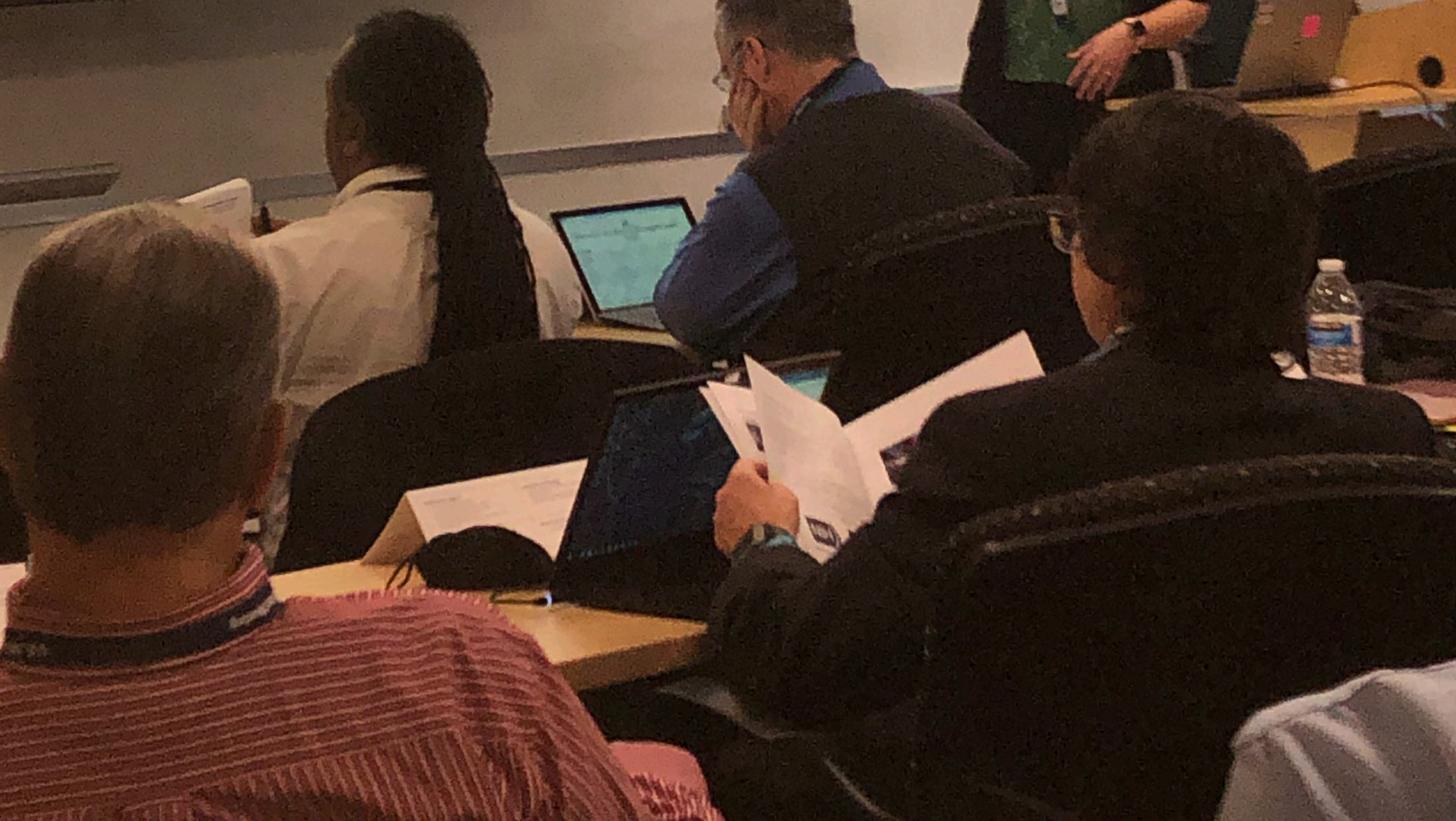
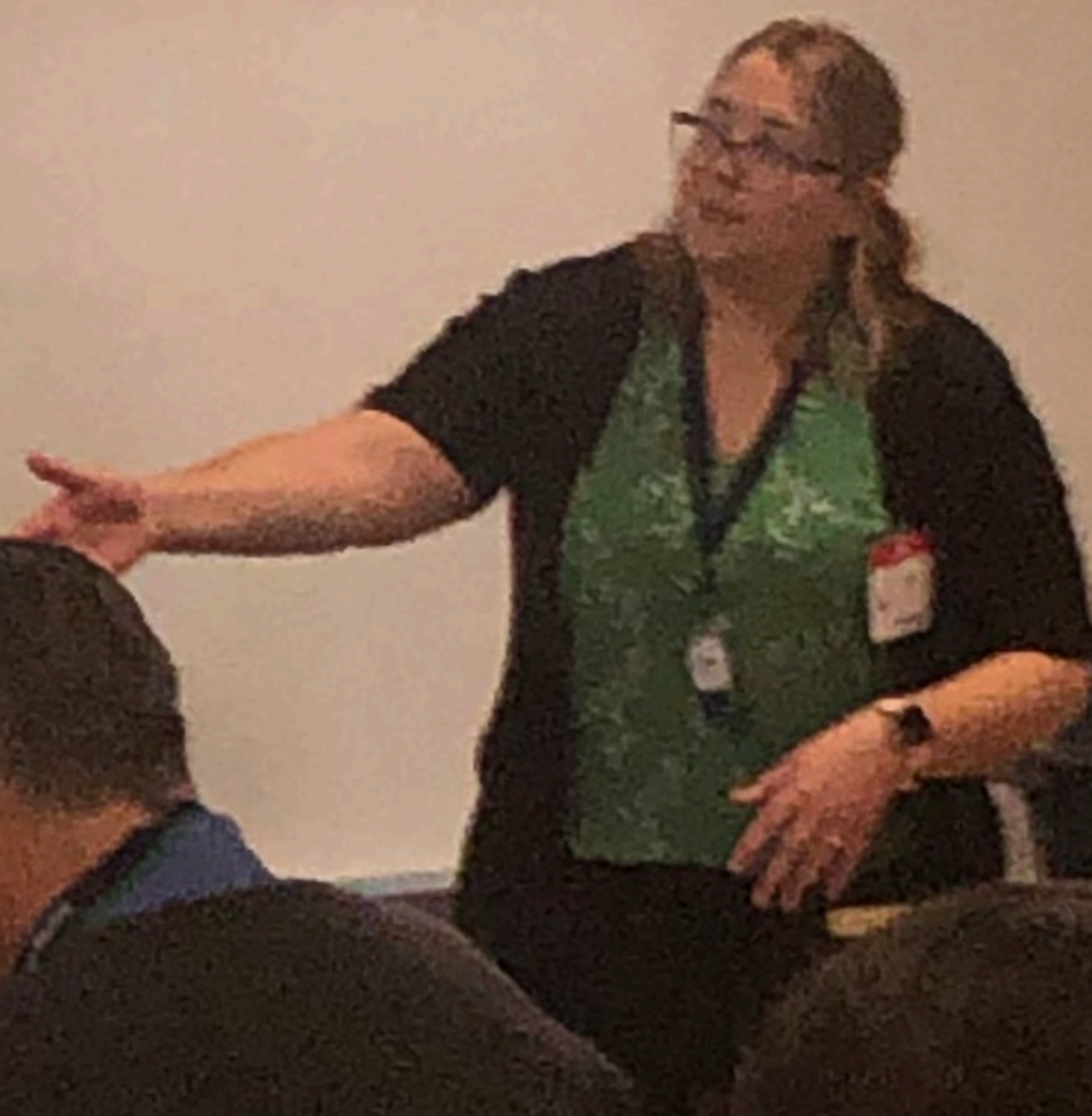
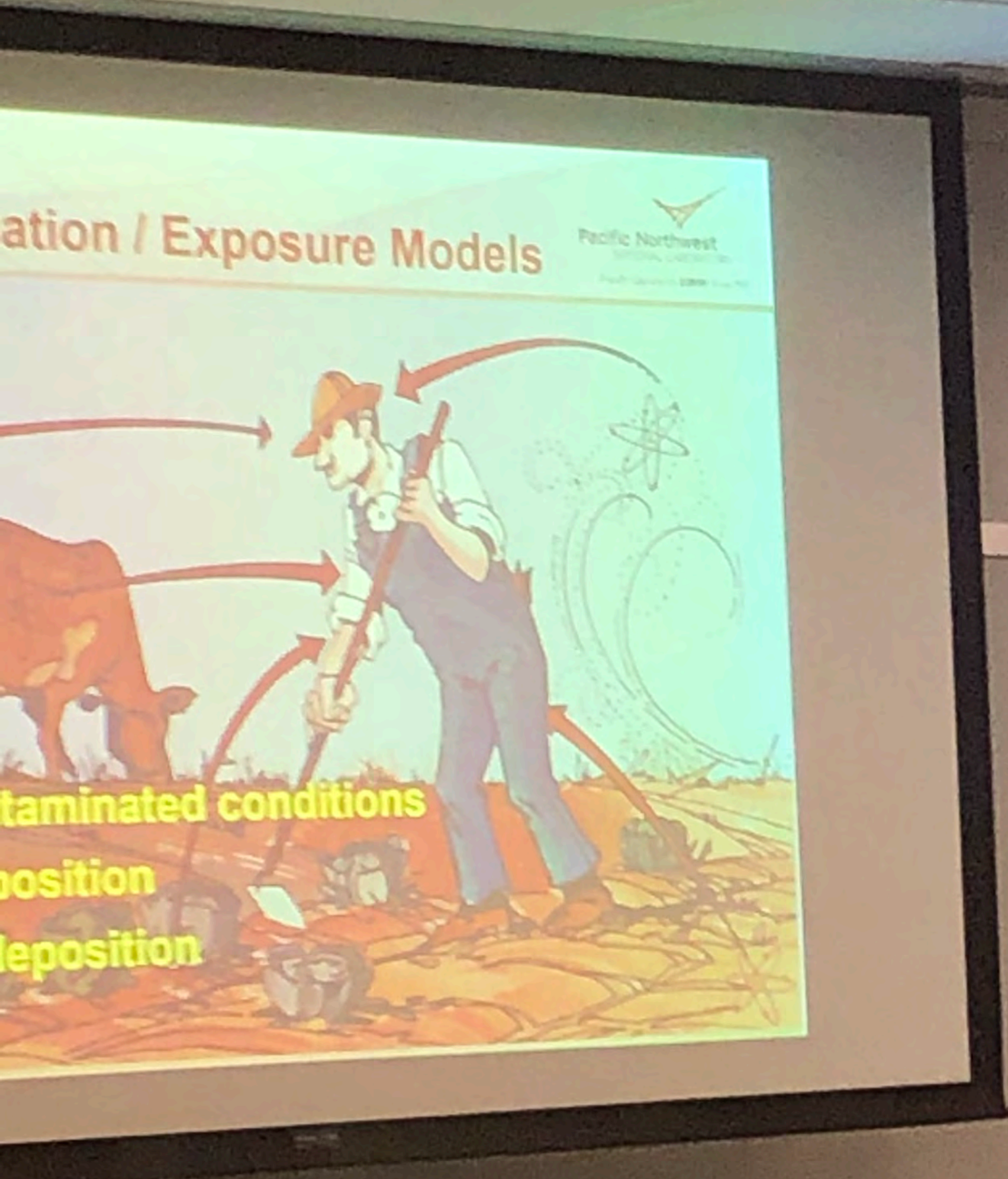


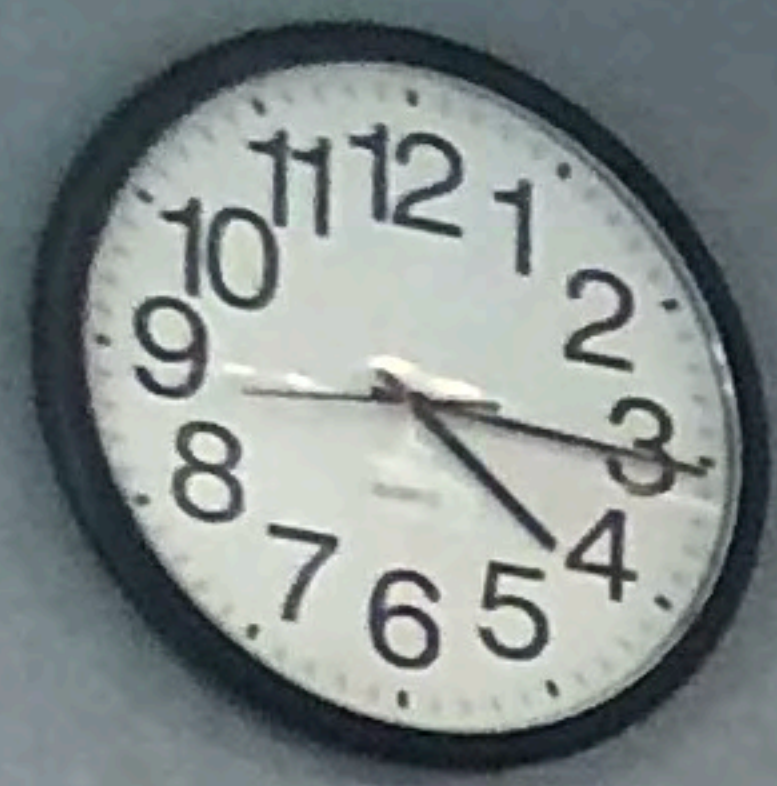












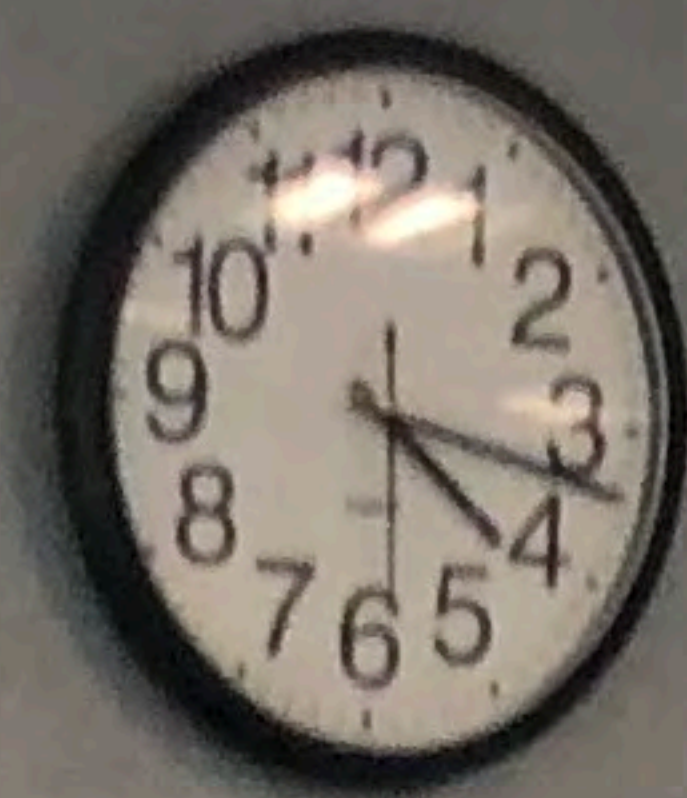


RASCAL Training
Radiological Assessment System for
Consequence Analysis

RASCAL (Mon-Wed)
MiFi-Verizon-7911-EDB3
PW: a7...5







USARC
HRID
Leonel

USARC
HRID
Gary

USARC
HRID



USNRC
Human Resources
Training & Development

Visitor
Name: [illegible]
Title: [illegible]
Organization: [illegible]

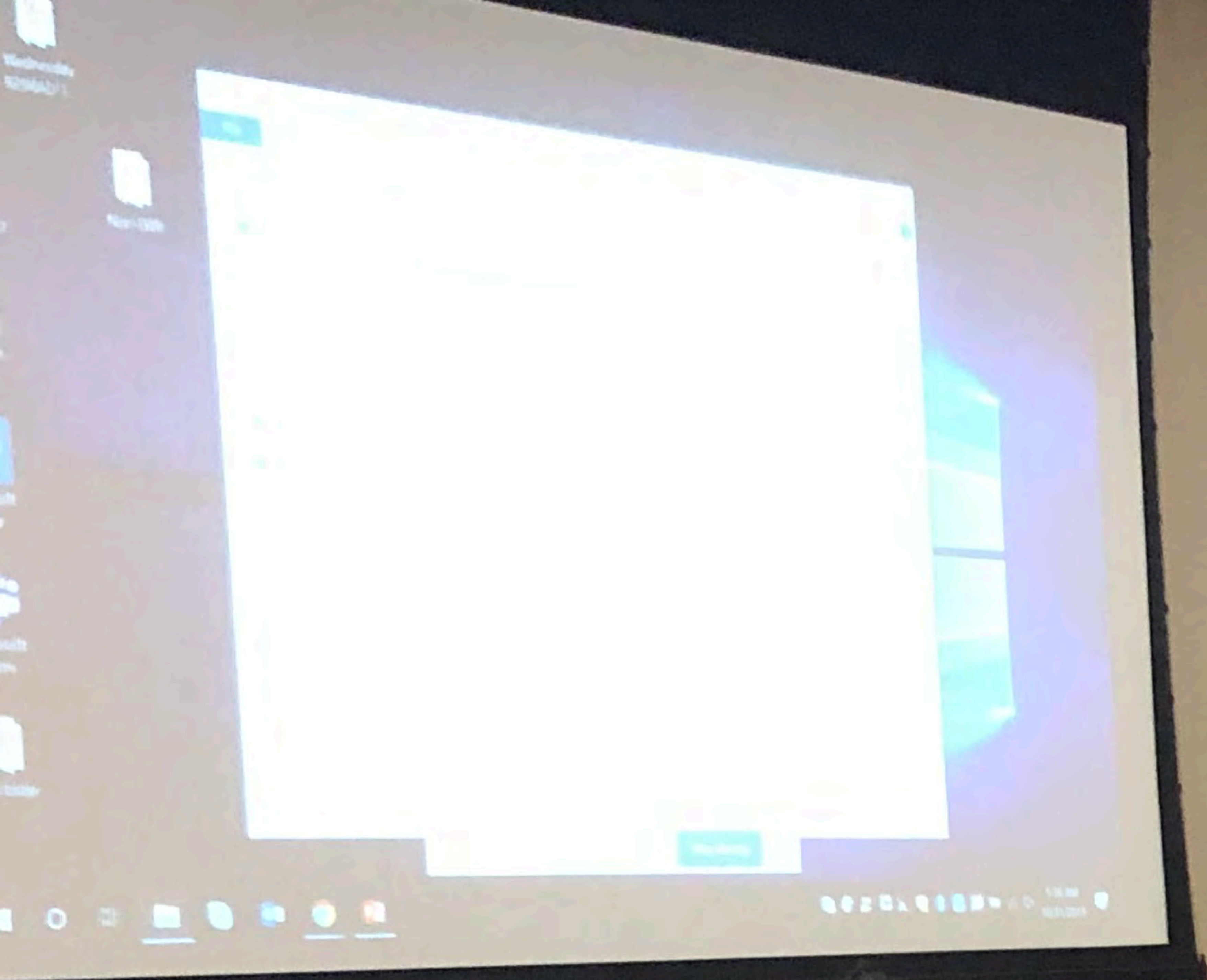
Maureen
NRC South Africa

Jerem
PNNL

Todd
NRC/Region I

Xiadong Jiang
NRC
HRID







USNRC
U.S. Nuclear Regulatory Commission
Protecting Public Health and the Environment
Promoting Safe and Sound Energy

Welcome to the 2019 Fall RAMP Users Meeting
Non-LWR HP Technical Meeting

Kimberly Whitman, MS, D. Deputy Director
Office of Nuclear Regulatory Research
October 10, 2019

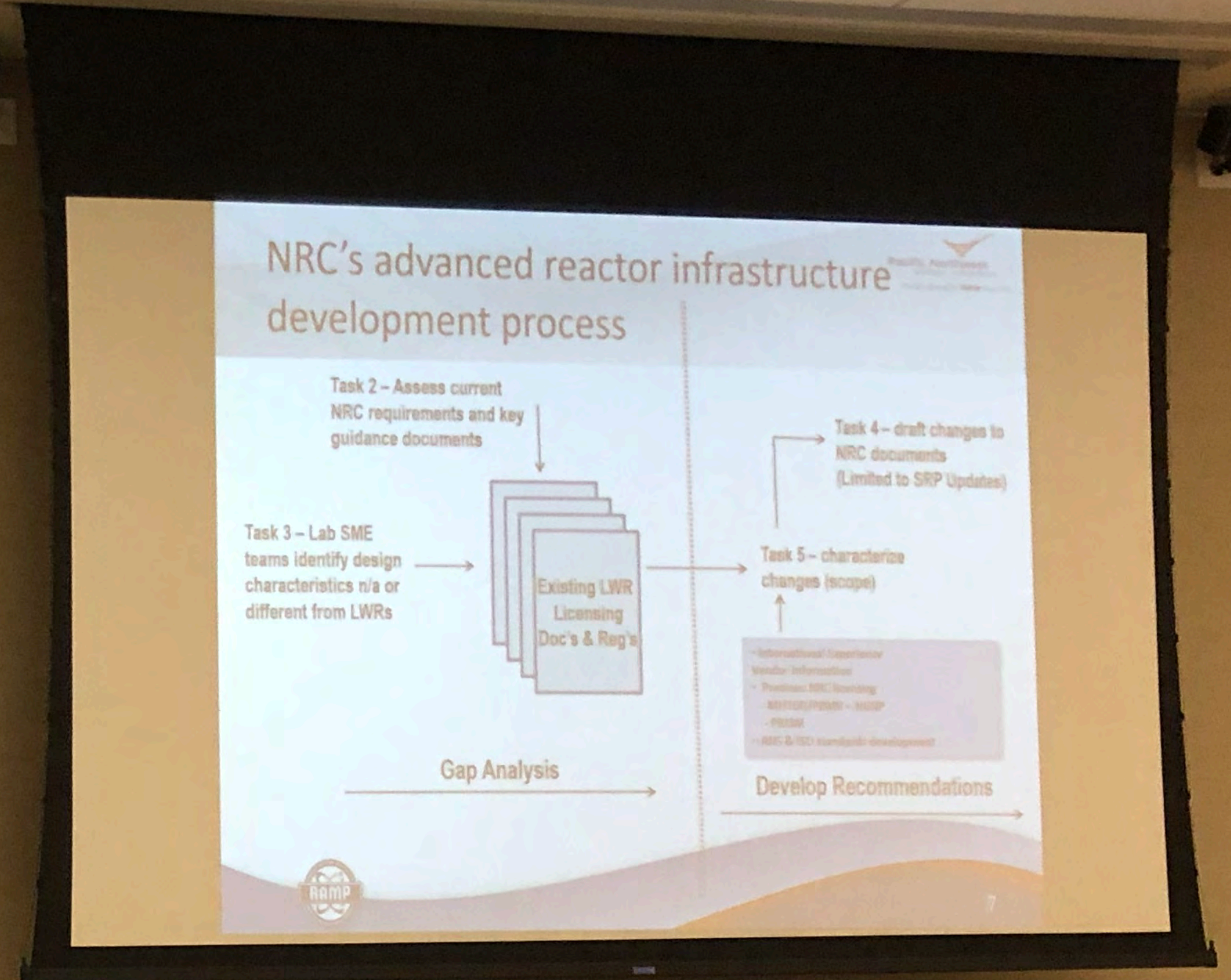
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PAVAN Inputs

- Source:
 - Ground-level
 - Elevated
 - For elevated releases, terrain height can be incorporated into a calculation of "effective plume height"
- Meteorology
 - joint frequency distribution of wind direction (16 sectors), wind speed (up to 14 bins), stability class (7 classes, A through G)
- Receptors
 - Exclusion area boundary (EAB)
 - Outer boundary of the low population zone (LPZ).
- Other
 - Site-specific or default correction factors to account for non-straight trajectories may be used in the calculation of the annual average χ/Q values

WiFi

Name Verizon-MiFi

7730L-4B60

W-0F970a30











RADTRAN Developments

- With source code from DOE, created an executable of RADTRAN 2.0.0
 - Available to RAMP members
 - Batch mode
 - Documentation also available
- Contract to develop a new GUI
- Integrated code and GUI into RAMP

2019 RAMP User Group Meeting on October 31, 2019

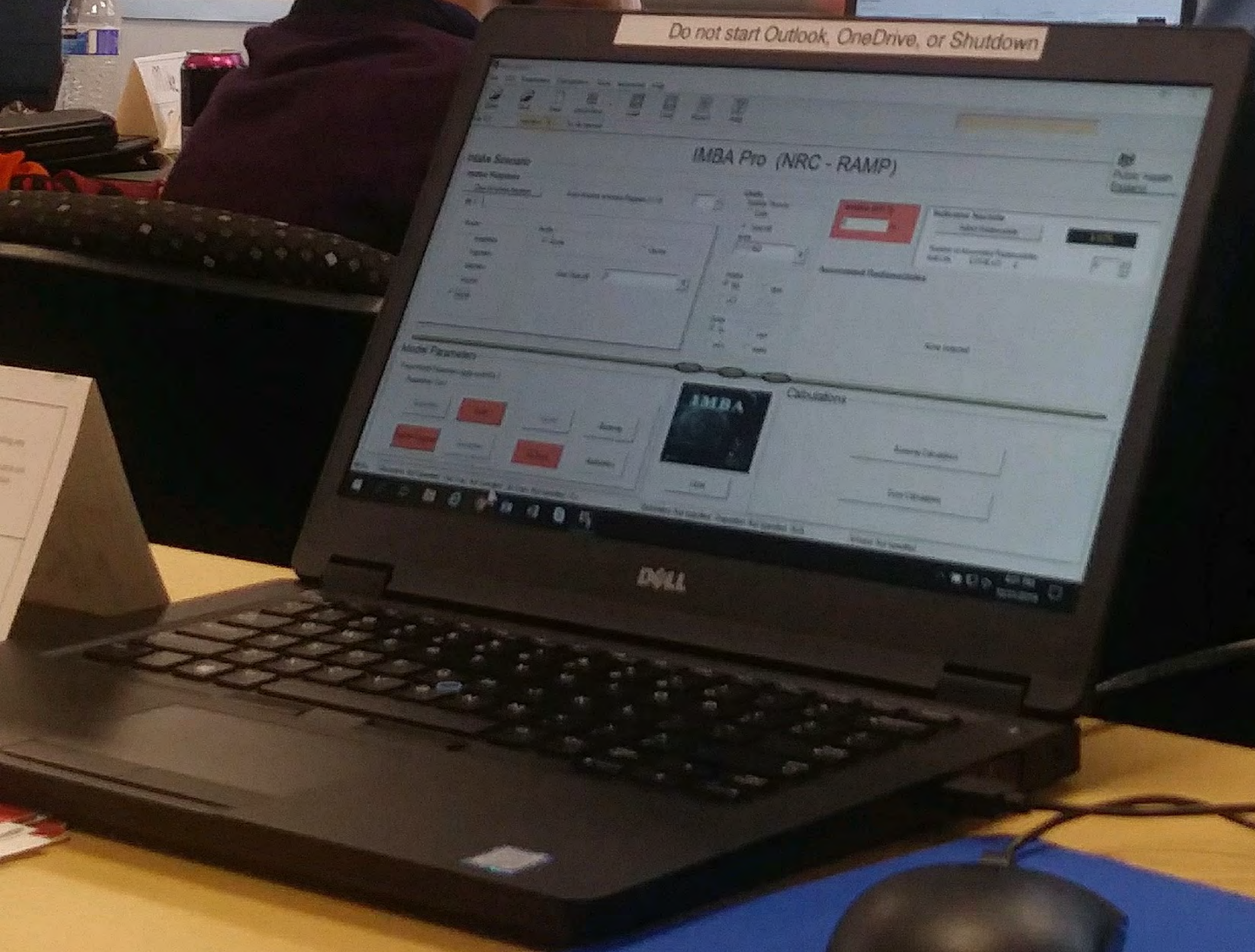
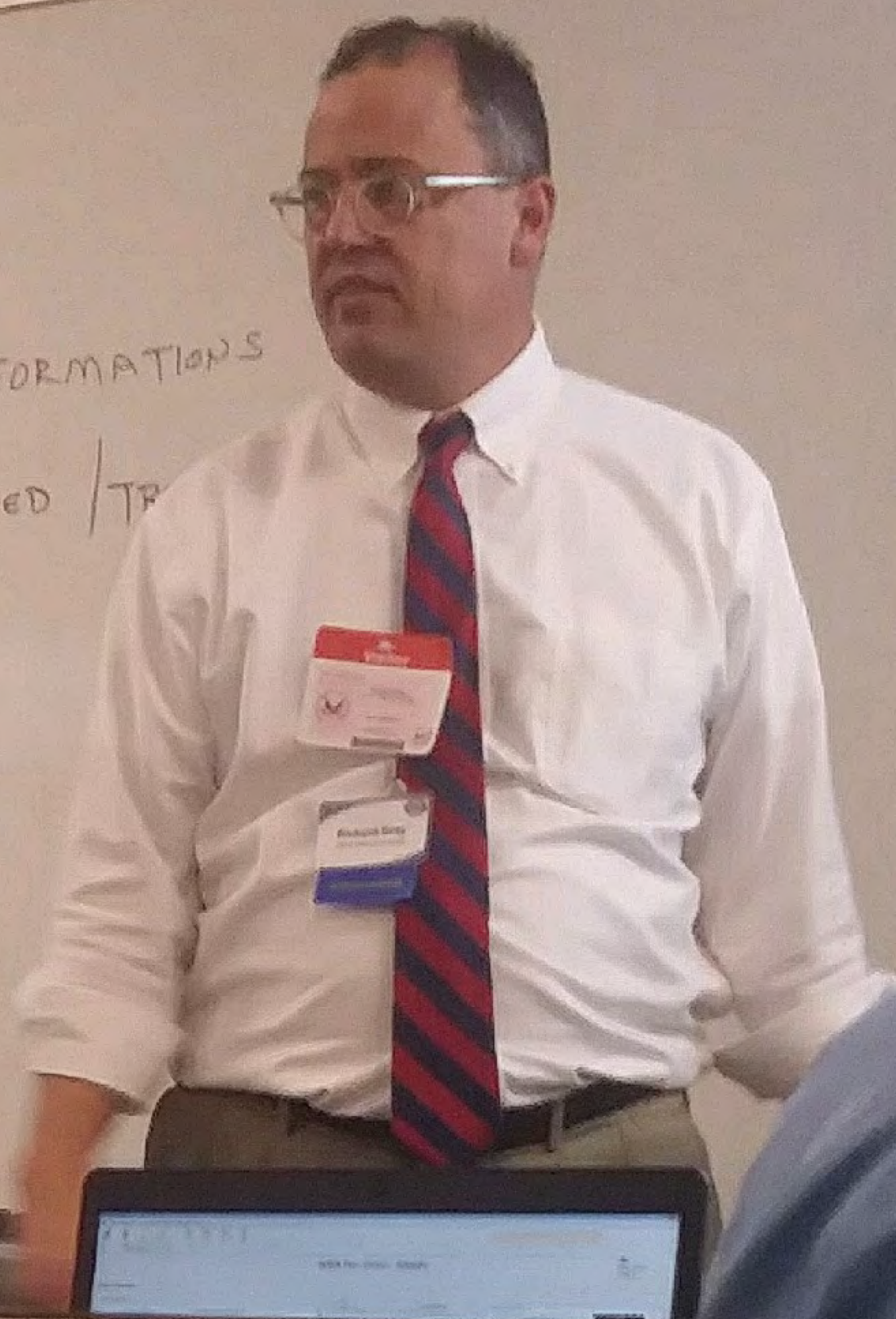
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1) # OF TRANSFORMATIONS

2) ENERGY DEPOSITED / TR









NIH Tour





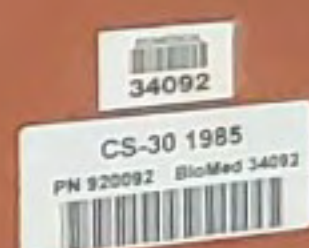








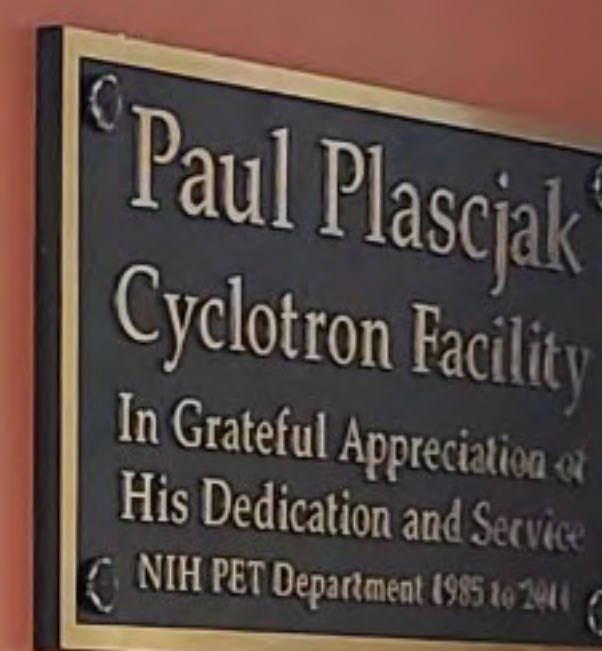
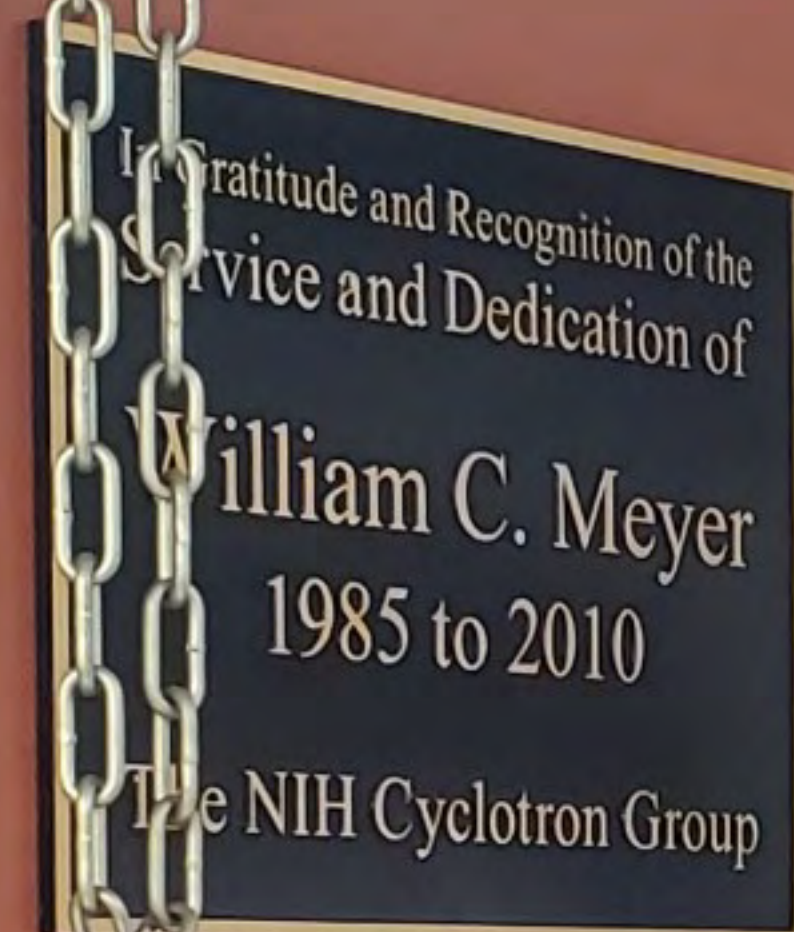




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Discussions & Networking





VARSKIN

01C03/05

U.S. NRC











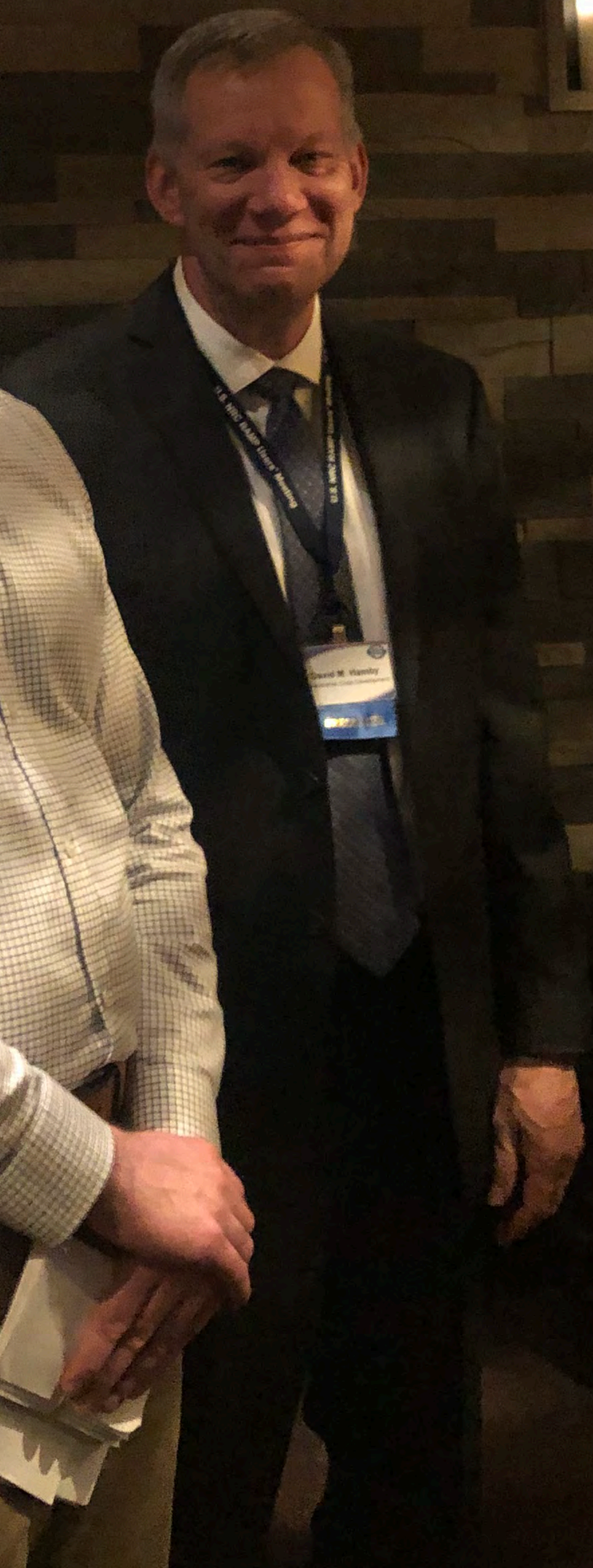
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RENAISSANCE
CODE DEVELOPMENT

Providing Custom
Development
Consulting Services

Experts in radiological
world leaders in skin





















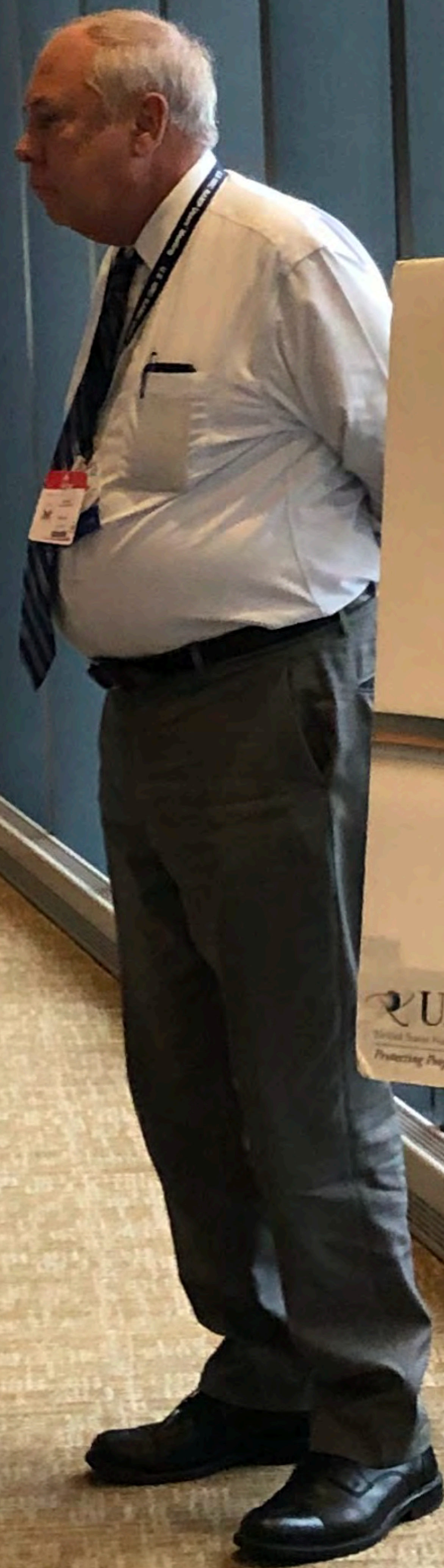




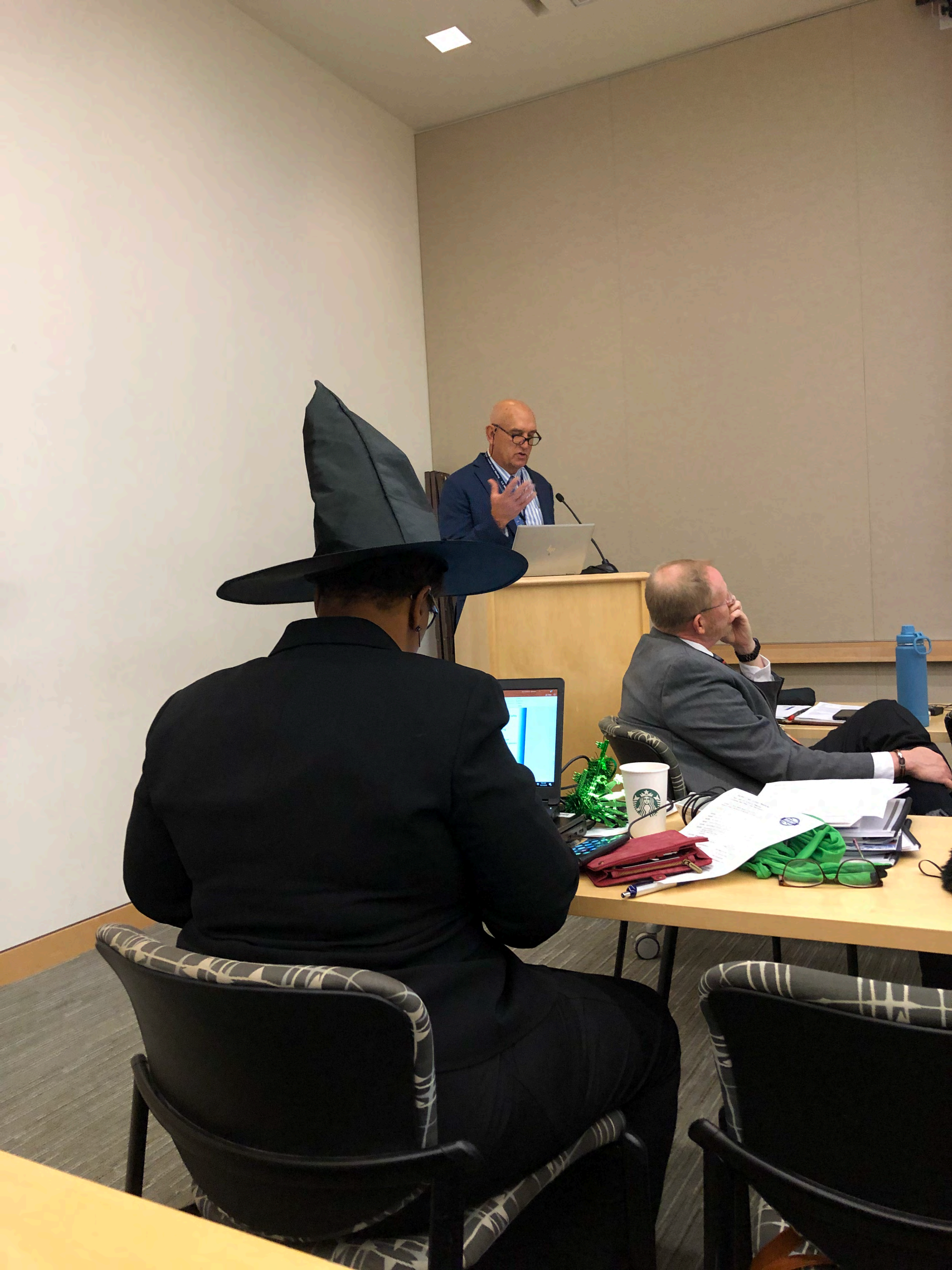


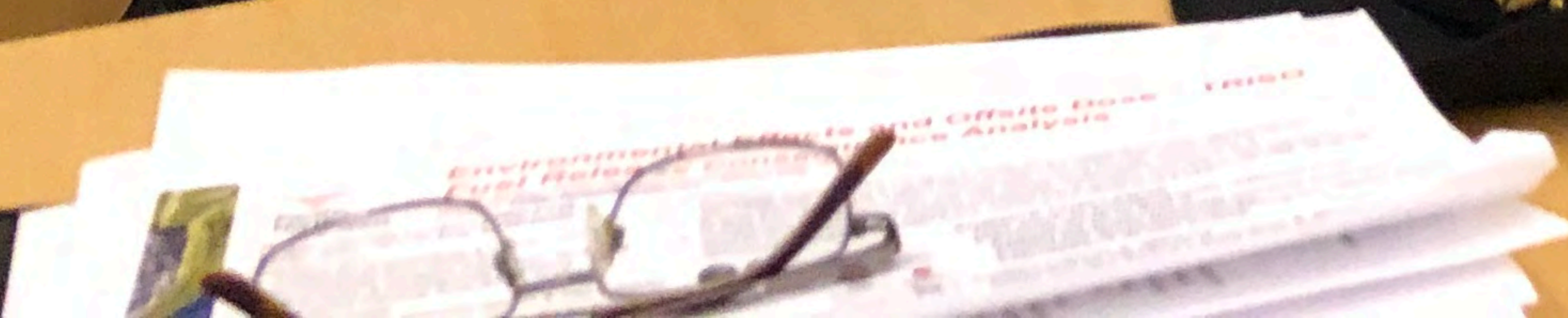
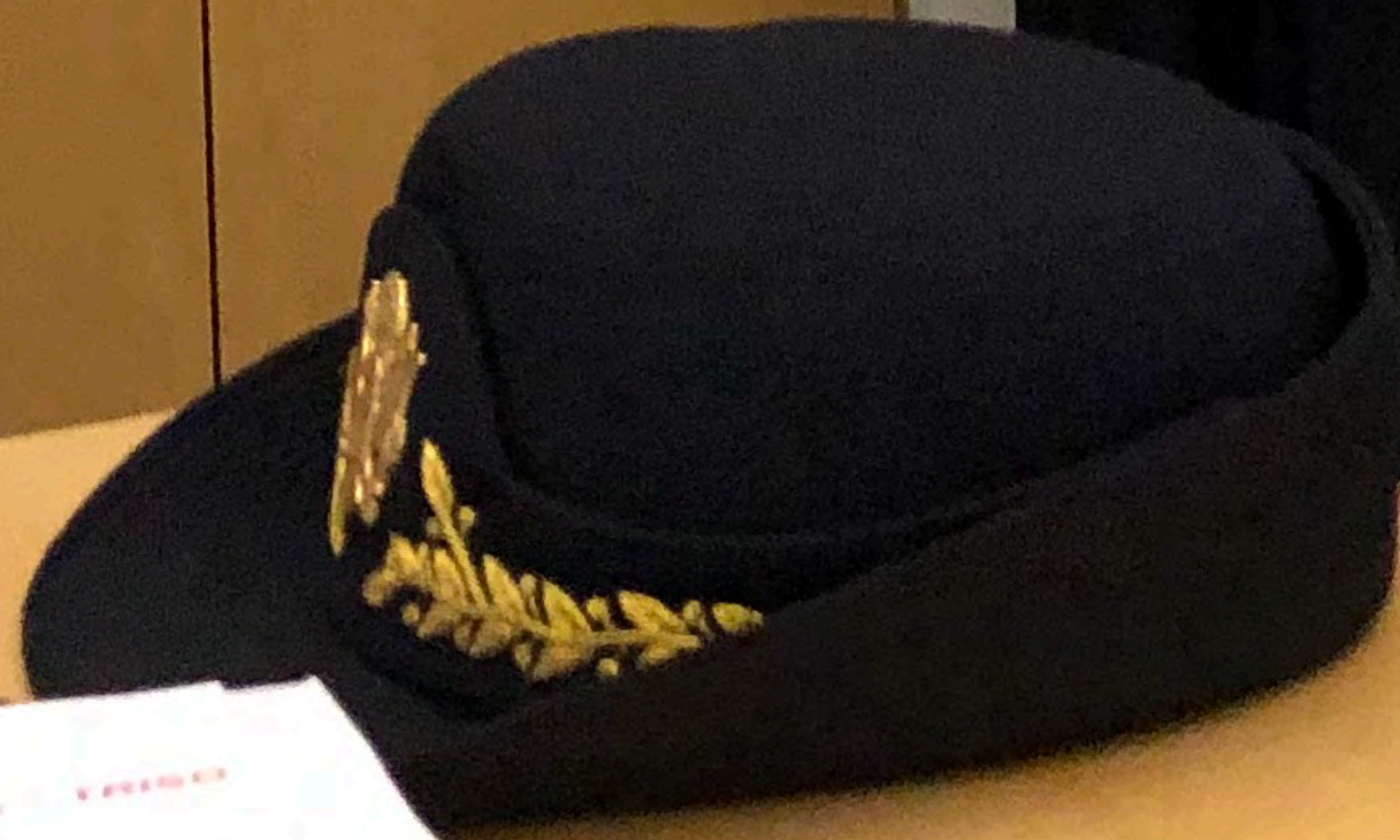
















See you in 2020!!



For details go to:
<https://ramp.nrc-gateway.gov/>

