



2021 SPRING USERS VIRTUAL MEETING CO-HOSTED WITH UKRAINE

APRIL 12-16, 2021



WELCOME!

Audio – All participants will be muted.

Video – All participants video will be disabled.

Questions –

- Questions will be addressed at the end of the presentations.
- Please use Chat to submit any questions.
- Please type your name, country, the question, and the person the question is directed to in the chat.
- If you have questions after the meeting, please email the questions to RAMP.ADMIN@pnnl.gov

Electronic Certificates –

- Available per request only. Please email RAMP.ADMIN@pnnl.gov

Technical Issues –

- Please email RAMP@nrc.gov

Meet the NRC RAMP Team

U.S. Nuclear Regulatory Commission (NRC) RAMP Team



Vered Shaffer, Ph.D.
RAMP Program Manager



Stephanie
Bush-Goddard, Ph.D.
RAMP Program Manager



Casper Sun, Ph.D., CHP
RAMP Program Team



Edward Harvey
RAMP Program Team

Pacific Northwest National Laboratory (PNNL) RAMP Team



Bruce McDowell
PNNL RAMP Program
Manager



Caitlin Condon
PNNL Health Physicist



Luba Hamilton
PNNL RAMP Program
Coordinator



Tanya Korotkov
PNNL RAMP Program
Coordinator

Leidos RAMP Team



Daniel Pomykala
Leidos RAMP Program
Manager



James Wiedeman
Leidos RAMP Website
Technical Lead



Jason Luttrell
Leidos RAMP Website
Developer



Frederic Gooding
Leidos RAMP Operations
Support

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



APRIL 12-16, 2021

LIST OF PRESENTERS

Vered Shaffer

Manager of Radiation Protection Computer Code Analysis and Maintenance Program (RAMP), U.S. Nuclear Regulatory Commission (NRC)

Stephanie Bush-Goddard

Program Manager of Radiation Protection Computer Code Analysis and Maintenance Program (RAMP), U.S. Nuclear Regulatory Commission (NRC)

Anna Gorashchenkova

State Nuclear Regulatory Inspectorate of Ukraine (SNRIU) Head of Division for International Cooperation and European Integration

Oleksandr Pecherytsia

State Scientific & Technical Center (SSTC) NRS Deputy Director on Scientific and International Activities

Kim Weber

Director, Division of Systems Analysis, Office of Nuclear Regulatory Research (NRC)

Michael LaFranzo

U.S. Nuclear Regulatory Commission Region III

Cynthia Barr

Senior Risk Analyst, U.S. Nuclear Regulatory Commission NMSS

Casper Sun

U.S. Nuclear Regulatory Commission

Deboarh Fagan

Statistician, Pacific Northwest National Laboratory

Karen Smith

Advisor, Pacific Northwest National Laboratory

Amoret Bunn

Senior Environmental Engineer, Pacific Northwest National Laboratory

Lisa Newburn

Computer Scientist, Pacific Northwest National Laboratory

Charley Yu

Argonne National Laboratory

Sunita Kamboj

Argonne National Laboratory

David LePoire

Argonne National Laboratory

Bruce Biwer

Argonne National Laboratory

Bruce McDowell

Advisor, Pacific Northwest National Laboratory

Zakhar Ivanov

State Scientific & Technical Center (SSTC) NRS

Hennadii Chumak

State Scientific & Technical Center (SSTC) NRS

Blake Orr

Senior Scientist, Assessment and Advice Section, Radiation Health Services, Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

Yevhen Veselov

State Scientific & Technical Center (SSTC) NRS

Iryna Kutina

State Scientific & Technical Center (SSTC) NRS

Rhex Edwards

Senior Health Physicist, U.S. Nuclear Regulatory Commission Region III

Bill Lin

U.S. Nuclear Regulatory Commission

Tom Nicholson

Senior Technical Advisor, U.S. Nuclear Regulatory Commission

John Bliss

Los Alamos National Laboratory

David King

Sr Health Physicist, Oak Ridge Associated Universities

Chris Grossman

U.S. Nuclear Regulatory Commission

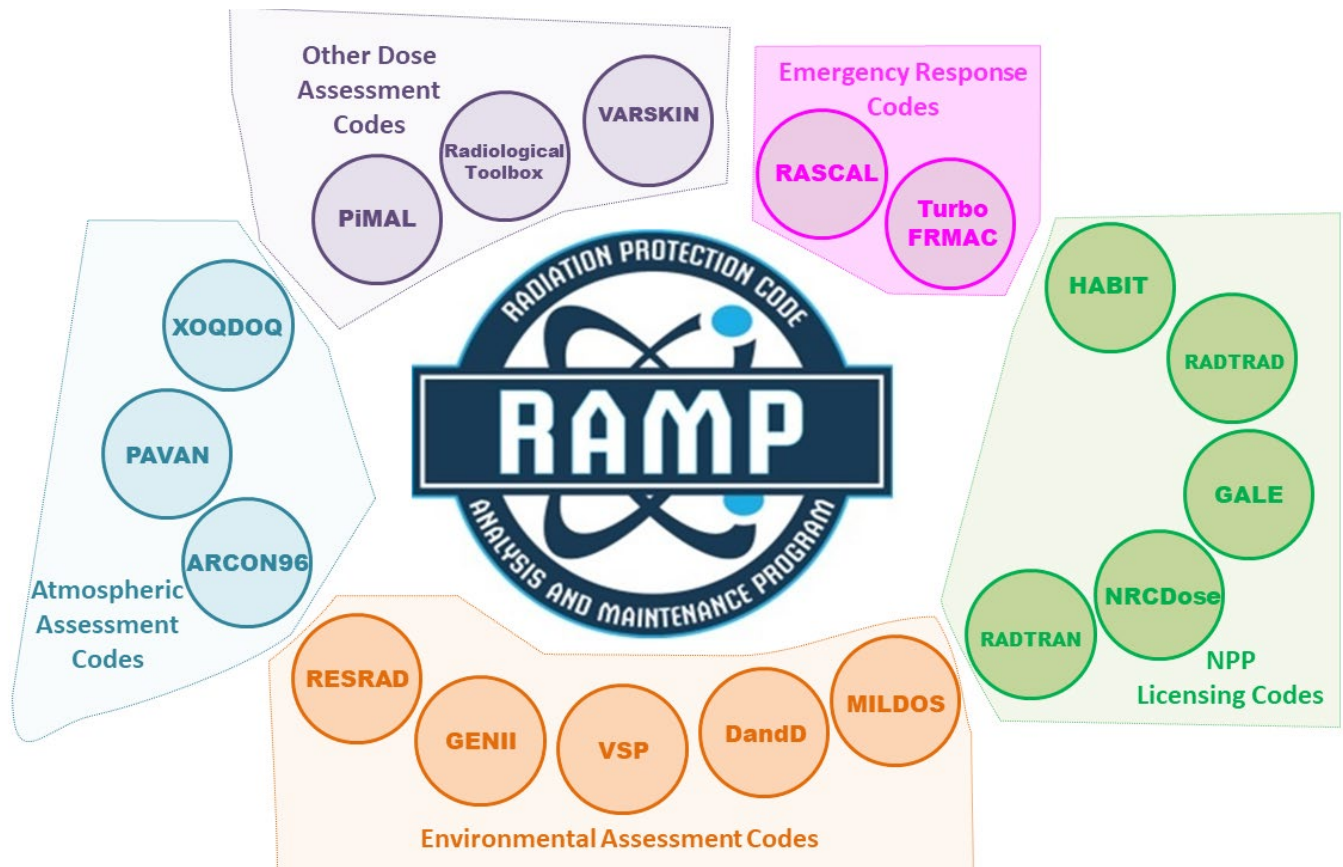
Bruce Napier

Environmental Health Physicist, Pacific Northwest National Laboratory

Caitlin Condon

Environmental Health Physicist, Pacific Northwest National Laboratory

Radiation Protection Computer Code Analysis and Maintenance Program (RAMP) Codes



RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program



SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



APRIL 12-16, 2021

Monday | April 12, 2021

7:00 AM – 7:30 AM (2:00 PM – 2:30 PM Kyiv)	Opening Remarks	
7:45 AM – 9:45 AM (2:45 PM – 4:45 PM Kyiv)	Regulatory Framework for Decommissioning and Environmental Remediation <i>detailed schedule to follow</i>	
10:00 AM – 12:00 PM (5:00 PM – 7:00 PM Kyiv)	VSP Boot Camp	Lisa Newburn (PNNL) Deb Fagan (PNNL)

Tuesday | April 13, 2021

7:00 AM – 10:00 AM (2:00 PM – 5:00 PM Kyiv)	RESRAD-RDD	Charley Yu (ANL)
---	------------	------------------

Wednesday | April 14, 2021

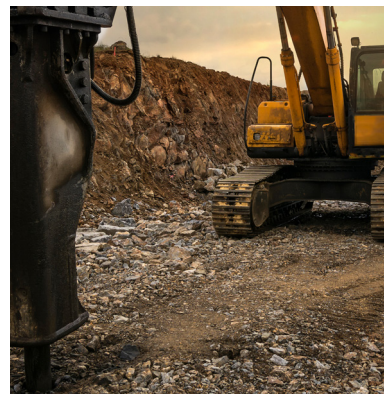
7:00 AM – 10:00 AM (2:00 PM – 5:00 PM Kyiv)	MILDOS	Bruce Biwer (ANL)
10:15 AM – 11:15 AM (5:15 PM – 6:15 PM Kyiv)	Drones Project Introduction	Amoret Bunn (PNNL)

Thursday | April 15, 2021

7:00 AM – 10:00 AM (2:00 PM – 5:00 PM Kyiv)	Transport of Radionuclides in the Environment Symposium	<i>full schedule to be provided</i>
---	--	-------------------------------------

Friday | April 16, 2021

7:00 AM – 8:00 AM (2:00 PM – 3:00 PM Kyiv)	DandD	Christopher Grossman (NRC) David King (ORAU)
8:15 AM – 10:15 AM (3:00 PM – 5:15 PM Kyiv)	GENII	Bruce Napier / Caitlin Condon (PNNL)



All times U.S. Eastern Daylight Time, unless otherwise noted

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



APRIL 12-16, 2021

Detailed Schedule | Opening Sessions

April 12, 2021	Opening Session	Presenter
7:00 – 7:05 AM	Welcome Remarks	Vered Shaffer (RAMP NRC)
7:05 – 7:10 AM	Welcome Remarks from State Nuclear Regulatory Inspectorate of Ukraine (SNRIU)	Anna Gorashchenkova (SNRIU)
7:10 – 7:20 AM	Welcome Remarks from State Scientific & Technical Center (SSTC)	Oleksandr Pecherytsia (SSTC NRS)
7:20 – 7:30 AM	Advancing RAMP into the Future	Kim Webber (NRC)
7:30 – 7:40 AM	Meeting Logistics	Vered Shaffer (NRC)

Detailed Schedule | Monday AM Sessions

April 12, 2021	Regulatory Framework for Decommissioning and Environmental Remediation	Presenter
7:45 - 8:05 AM	Overview of NRC's Environmental Remediation/Decommissioning Process	Michael LaFranzo (NRC Region III)
8:05 - 8:20 AM	Guidance Updates and Other Decommissioning Activities	Cynthia Barr (NRC NMSS)
8:20 – 8:45 AM	Evaluations of Uranium Recovery Facility Surveys of Radon and Radon Progeny in Air and Demonstrations of Compliance with 10 CFR 20.1301	Casper Sun (NRC)
8:45 – 8:55 AM	Break	
8:55 – 9:25 AM	An Environmental Remediation Perspective on the Multi-Agency Site and Survey (MARSSIM)	Amoret Bunn (PNNL) Deborah Fagan (PNNL) Karen Smith (PNNL)
9:25 – 9:45 AM	IAEA's International Exercises and Technical Meetings of Radionuclide Transport in the Environment: A History	Stephanie Bush-Goddard (NRC)

All times U.S. Eastern Daylight Time, unless otherwise noted

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



STATE ENTERPRISE
STATE SCIENTIFIC AND TECHNICAL
CENTER FOR NUCLEAR AND
RADIATION SAFETY



APRIL 12-16, 2021

VSP Boot Camp Agenda

April 12, 2021

EDT	Presentation Topic
10:00 – 10:15	Introduction and VSP Overview
10:15 – 10:45	Quick Tour of VSP (Hands On)
10:45 – 11:00	<i>Break</i>
11:00 – 11:15	Exercise 1: Creating a Map and Survey Unit
11:15 – 11:50	Exercise 2: Setting up a MARSSIM Sampling Plan
11:50 – Noon	Q & A; Wrap-up

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



SSITC
NRS

STATE ENTERPRISE
STATE SCIENTIFIC AND TECHNICAL
CENTER FOR NUCLEAR AND
RADIATION SAFETY



U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment



APRIL 12-16, 2021

RESRAD-RDD Agenda

April 13, 2021

EDT	Presentation Topic
7:00 – 7:10	Overview of RESRAD Family of Codes
7:10 – 7:25	RESRAD-RDD Introduction
7:25 – 7:50	RESRAD-RDD Methodology
7:50 – 8:00	<i>Break</i>
8:00 – 8:20	RESRAD-RDD Demo
8:20 – 8:30	Group A, Access Control During Emergency Response
8:30 – 8:40	Group B, Early-Phase Protective Actions
8:40 – 8:50	Group C, Relocation
8:50 – 9:00	<i>Break</i>
9:00 – 9:10	Group D, Temporary Access
9:10 – 9:20	Group E, Transportation
9:20 – 9:30	Group F, Release of Property
9:30 – 9:40	Group G, Food Consumption
9:40 – 9:50	RESRAD-RDD Exercise
9:50 – 10:00	Q & A

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



**SSITC
NRS** | STATE ENTERPRISE
STATE SCIENTIFIC AND TECHNICAL
CENTER FOR NUCLEAR AND
RADIATION SAFETY



APRIL 12-16, 2021

MILDOS Agenda

April 14, 2021

EDT	Presentation Topic
7:00 – 7:45	Introduction Scope Overview of methodology and input
7:45 – 8:00	<i>Break</i>
8:00 – 8:45	Sensitivity analysis Output options / Results analysis Meteorological data input Map usage
8:45 – 9:00	<i>Break</i>
9:00 – 9:45	ISR example
9:45 – 10:00	Q & A; Wrap-up

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



APRIL 12-16, 2021

Detailed Schedule | Thursday Sessions

April 15, 2021	Transport of Radionuclides in the Environment (Symposium)	Presenter
7:00 - 7:05 AM	Introduction and Logistics	Bruce McDowell (PNNL)
7:05 - 7:35 AM	Challenges of Radiological Environmental Impact Assessment for Ukrainian Uranium Legacy to Safely Remediate the Site of PCP	Zakhar Ivanov (SSTC NRS), Hennadii Chumak (SSTC NRS)
7:35 - 7:45 AM	Applications of RESRAD RDD	Charley Yu (ANL)
7:45 - 7:55 AM	Estimating Radiological Health Impacts from In Situ Recovery Operations using MILDOS	Bruce Biwer (ANL)
7:55 - 8:05 AM	Break	
8:05 - 8:25 AM	Environmental Remediation and Decommissioning in Australia	Blake Orr (ARPANSA)
8:25 - 8:45 AM	Remediation of Sites with Emergency and Legacy Radioactive Waste in Ukraine	Yevhen Veselov (SSTC NRS), Iryna Kutina (SSTC NRS)
8:45 - 8:55 AM	Break	
8:55 - 9:10 AM	Day in the Life of an Environmental Remediation (Decommissioning Inspector)	Rhex Edwards (NRC)
9:10 - 9:25 AM	Decommissioning Overview and Lessons Learned of the Zion Project	Bill Lin (NRC)
9:25 - 9:40 AM	Federal Remediation Technologies Roundtable	Tom Nicholson (NRC)
9:40 - 10:00 AM	Achieving Termination of Radiological Controls Following a Cesium-137 Release at the Harborview Research and Training Building	John Bliss (LANL)
10:00 AM	Question/Answers Wrap-Up	Bruce McDowell (PNNL)

All times U.S. Eastern Daylight Time, unless otherwise noted

RAMP

Radiation Protection Computer Code
Analysis and Maintenance Program

SPRING 2021 INTERNATIONAL USERS GROUP MEETING

Virtually Co-Hosted
with Ukraine



STATE ENTERPRISE
STATE SCIENTIFIC AND TECHNICAL
CENTER FOR NUCLEAR AND
RADIATION SAFETY



APRIL 12-16, 2021

GENII Agenda

April 16, 2021

EDT	Presentation Topic
8:15 – 8:55	Introduction to GENII and relationship to Uranium Mining and Milling
8:55 – 9:00	<i>Break</i>
9:00 – 9:45	GENII Example 5 Walk Through
9:45 – 10:00	GENII Example 7 Walk Through
10:00 – 10:15	Q & A; Wrap-up

THANK YOU FOR ATTENDING
STAY TUNED
2021 Fall Users Group Virtual Meeting



For additional information:

Email:

RAMP@nrc.gov

RAMP.Admin@pnnl.gov

RAMP Website:

<https://ramp.nrc-gateway.gov>