

RAMPED UP!

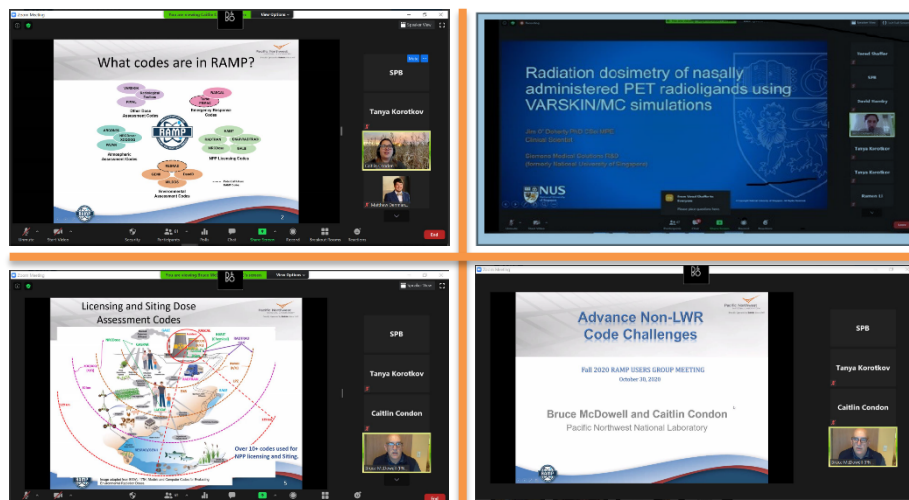
RAMP NEWSLETTER – SPRING 2021, ISSUE 12

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2020 Domestic RAMP Users Group Virtual Meeting Recap



The fifth domestic Radiation Protection Computer Code Analysis and Maintenance Program (RAMP) Virtual Users Group Meeting was hosted by the NRC on October 26 – 30 and November 4 – 6, 2020.

The NRC welcomed the largest number of RAMP meeting attendees thus far with over 220 registered participants, instructors, and support staff. Numerous international regulators and organizations were represented including Australia, Canada, Ghana, South Africa, South Korea, Spain, United Arab Emirates, United Kingdom, Singapore, Ukraine, and Taiwan. Domestic and international users comprised multiple Federal Government and State agencies, national laboratories, universities, and the nuclear industry.

The meeting featured training sessions and discussions for RASCAL, NRC Dose3, RADTRAD, IMBA, RESRAD, NRC-RADTRAN, GENII, Radiological Toolbox, Turbo FRMAC, and the Atmospheric Codes (PAVAN & ARCON). The virtual training offered users a way to test the codes and their ability to use the codes while receiving direct feedback from the code developers. Attendees participated virtually in open discussions with developers, provided suggestions for code improvements, and learned more about code upgrades and future releases. Users were able to ask more in-depth questions pertaining to their needs during the discussions.



U.S. Nuclear Regulatory Commission
Rockville, MD

U.S. NRC RAMP website:
<https://ramp.nrc-gateway.gov/>

TEAM HIGHLIGHTS

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NRAN Apprentice



Melissa McGuffie is from Tuscaloosa, Alabama. She attended Alabama Agricultural and Mechanical University, where she received her B.S. in Electrical Engineering with a concentration in nuclear power.

Melissa is a part of the Nuclear Regulatory Apprenticeship Network (NRAN) at the NRC. She completed her first round apprenticeship in Region I, as part of the Division of Reactor Projects. She is now in her second apprenticeship in Research, Division of Safety Analysis in the Radiation Protection Branch. She is currently working on Regulation Guide 8.39 as well as a few more assignments.

Melissa enjoys numerous activities outside of work. A few of those activities are singing, reading, watching anime and k-dramas, and playing competitive games with her husband, but mostly she enjoys hanging out with her 4 month old son Kainen. She looks forward to completing her journey in the and is excited to be a member of the RAMP team!

RAMP PM and Tech Lead



Ed Harvey joined the U.S. NRC's RAMP team in July of 2020 and is currently working to become the project manager and technical lead for the RASCAL, SNAP/RADTRAD, NRC-RADTRAN, GALE, and NRC Dose computer codes.

Prior to joining the RAMP team, Ed was a nuclear materials inspector for the NRC for 5 years where he performed safety and security inspections of facilities that use nuclear material for medical, industrial, and research purposes. Ed holds both a bachelor's and master's degree in Nuclear Engineering & Radiological Sciences from the University of Michigan.

Being a Michigan native, Ed enjoys spending time up north and on the lake any chance he can get. He also has an affinity for home renovation projects such as bathroom and kitchen remodels. Ed looks forward to working with all the members of the RAMP community!

CODE UPDATES

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INTERNATIONAL PARTNERS UPDATE

RAMP has been expanding their international partnerships with over 600 international radiation protection code users.

The RAMP team thanks Nigeria and Mexico for becoming a new addition to the RAMP family!

The RAMP Team is excited to be hosting its Spring 2021 International Users meeting, which will be hosted by Ukraine on April 12 – 16, 2021.



Nigeria



Mexico

New Addition: Visual Sample Plan (VSP)

Visual Sample Plan (VSP) is a statistical design and analysis software that has been maintained by the Pacific Northwest National Laboratory (PNNL) for 23 years and has recently been added to RAMP. With over 5,000 domestic and international users, VSP provides statistically based fixed laboratory and survey design support as well as data visualization, analysis, and decision support for a wide range of chemical, biological, and radiological application spaces. The objective of VSP is to ensure that the right type, quality, and quantity of data are gathered to support confident decisions.

The methodology underlying VSP employs statistically defensible approaches and has strong Data Quality Objectives (DQO) and Data Quality Assessment (DQA) underpinnings. Through NRC sponsorship, VSP now includes the complete Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM, NUREG-1575, Rev. 1) capability for design and analysis of final status surveys. The most recent update will enable the use of VSP for final status surveys for Class 3 areas under MARSSIM Scenario B (NUREG-1505, Rev 1).

Current activities include identifying analysis methods to include for GPS guided scan surveys, both human-conducted as well as via autonomous vehicles. Additional activities are planned to develop methods for subsurface characterization, including visualization and analysis. To learn about and download VSP, see <http://vsp.pnnl.gov>.



FUTURE EVENTS

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WE'D LOVE TO HEAR FROM YOU!

The RAMP Team welcomes your thoughts and feedback on any code features and enhancements for the RAMP codes and the RAMP website. Please send your feedback to RAMP@nrc.gov.



Feedback

IN THE NEXT ISSUE OF RAMPED UP...

- 2021 Spring Webinar Highlight
- Who's new in RAMP?
- Code Updates and Highlights
- Detail on Future Webinars and Meetings
- ...and More!!

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

Tuesday | April 13, 2021

7:00 AM – 10:00 AM (2:00 PM – 5:00 PM Kyiv)	RESRAD-RDD
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Wednesday | April 14, 2021

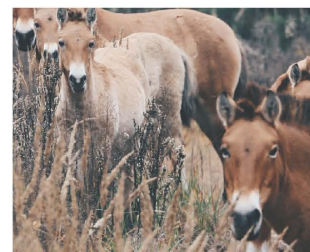
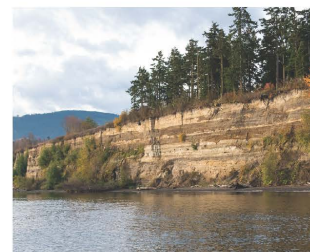
7:00 AM – 10:00 AM (2:00 PM – 5:00 PM Kyiv)	MILDOS
10:15 AM – 11:15 AM (5:15 PM – 6:15 PM Kyiv)	Drones Project Introduction

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>
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Friday | April 16, 2021

7:00 AM – 8:00 AM (2:00 PM – 3:00 PM Kyiv)	DandD
8:15 AM – 10:15 AM (3:00 PM – 5:15 PM Kyiv)	GENII



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