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**US EPA'S QUALITY PROGRAM 2022 VIRTUAL TRAINING EVENT:**  
***Resources shared in chat***

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Day 1 Tuesday February 8th, 12:30-4:15 ET

### Welcome and Opening Remarks

Kristen Durance | Ross Strategic:

Welcome to the Quality Program 2022 Virtual Training. We are recording all three days of this training and all presentation materials are available at <https://rossstrategic.net/EPA2022QATraining/>

### [Strategic Direction of the Quality Program at EPA](#)

No resources

### [Collaboration with State and Tribal Partners for the QMP and QAPP Standards.](#)

Katherine Chalfant:

QAARWP:

[https://usepa.sharepoint.com/sites/oei\\_Community/epaqualitycommunity/Quality%20Community%20Library/Core-QAARWP/FY2122%20QAARWP/FY21\\_22\\_QAARWP\\_Analysis\\_01202022\\_FINAL\\_VWN.pdf](https://usepa.sharepoint.com/sites/oei_Community/epaqualitycommunity/Quality%20Community%20Library/Core-QAARWP/FY2122%20QAARWP/FY21_22_QAARWP_Analysis_01202022_FINAL_VWN.pdf)

Sarah Davis:

<https://www.epa.gov/quality/forms/contact-us-about-managing-quality-environmental-information>

A Mocerro Powell:

More about ITEP: <http://www7.nau.edu/itep/main/Home/>

Anna Tai (WA Dept of Ecology):

[https://www.epa.gov/sites/default/files/2020-10/documents/air\\_monitoring\\_qapp\\_guide\\_-\\_final.pdf](https://www.epa.gov/sites/default/files/2020-10/documents/air_monitoring_qapp_guide_-_final.pdf)

Nicholas Rajen:

TEK is based off of an empirical system through oral methodologies, and records kept in nature - or text based libraries intentionally destroyed. The scientific method and principal is still followed - observation, question, hypothesis, experiment, analysis, conclusion.

Following on Catherine's point - cultural/prescribed burning followed a systematic progression: for example, in the Central coast region, Ohlone, Esselen, Yokut ancestors, tested burning practices from 2000 year's ago to a fully realized practice emerging around 1100CE. <https://youtu.be/F3sA7bck9bE>; <https://www.amahmutsunlandtrust.org/nlw20-fire-symposium-recap>

Demarus Tevuk (TWSP, Native Neighborhood study):

TEK focuses on qualitative data like the health of a system and traditional knowledge systems include ethics/values/morals along with protocols/policies and knowledge (content) - all of these work together to inform action. Western knowledge focuses on content or quantitative data and the goal isn't always action. My paper is an introduction to the differences and similarities between these two knowledge systems. [https://www.academia.edu/38034199/ETHICAL\\_SCIENCE\\_AND\\_INDIGENOUS\\_SUSTAINABILITY](https://www.academia.edu/38034199/ETHICAL_SCIENCE_AND_INDIGENOUS_SUSTAINABILITY)

Nicholas Rajen:

Another example of TEK and indigenous science - definitely more aware of greater environmental quantitative factors: <https://www.smithsonianmag.com/smart-news/researchers-uncover-2000-year-old-mayan-water-filtration-system-180976186/#:~:text=More%20than%202%2C000%20years%20ago%2C%20the%20Maya%20built,have%20discovered%20traces%20of%20this%20millennia-old%20engineering%20marvel.>

Rob Willis, Moderator, Ross Strategic:

<https://www.eecip.net/>

[Office of Mission Support, Freedom of Information Act Quality Assurance](#)

No resources

[OIG's Audit of the EPA Quality System](#)

No resources

[Intro to Next Session and Day Two Preview](#)

No resources

[Quality Programs Assessments Reboot](#) (*Participation in this session is limited to EPA staff only.*)

Linda Himmelbauer, EPA Enterprise Quality Management Division:

RQAM List: <https://www.epa.gov/quality/forms/contact-us-about-managing-quality-environmental-information>

Day 2 Wednesday February 9th, 12:30-5:15ET

[Welcome and Get Settled](#)

No resources

## Scientific Integrity: Including the recent OSTP report

Kristen Durance (they/she) | Ross Strategic:

EPA Scientific Integrity Website: <https://www.epa.gov/scientific-integrity>

## QA Grant Lifecycle: Panel Discussion

Sarah Sarfaty Epstein - Ross Strategic:

<https://www.grants.gov/>

Sarah Sarfaty Epstein - Ross Strategic:

<https://www.epa.gov/grants>

James Noel (US EPA/ORD/CCTE):

For those who are interested the definition of "Environmental Information" and types can be found on pages 9-10 of the EPA Environmental Information Quality Policy:

[https://www.epa.gov/sites/default/files/2021-](https://www.epa.gov/sites/default/files/2021-04/documents/environmental_information_quality_policy.pdf)

[04/documents/environmental\\_information\\_quality\\_policy.pdf](https://www.epa.gov/sites/default/files/2021-04/documents/environmental_information_quality_policy.pdf)

Sarah Sarfaty Epstein - Ross Strategic:

<https://www.epa.gov/grants>

<https://www.epa.gov/grants/epa-grants-management-training-applicants-and-recipients>

<https://www.epa.gov/grants/how-develop-budget>

<https://www.epa.gov/grants/epa-grants-award-process-webinars>

## [Defensible Data for Small Agencies](#)

No resources

## [Promoting QA in Academic Research Environments](#)

No resources

## Wrap up & Get to Next Session

No resources

## [Training: Using R in the QA Process or Training: How to be a Project Management Practitioner](#)

No resources

Day 3 Thursday February 10th, 12:30- 4:15

Welcome and Get Settled

No resources

[Understanding The Omicron Variant of SARS-CoV-2: A Microbiologist's Perspective](#)

No resources

[EPA's Office of Pesticide Program \(OPP\) Response to the COVID-19 Pandemic](#)

No resources

Q&A with Dr. Willis & Dr. Hasan

No resources

Thank you & Closing Plenary

No resources

Break and Get to Next Session

No resources

Using R in the QA Process

Michael Dummel – EPA ORD

Workbook with lots of links

<https://michaeldumelle.github.io/R-Packages-Reproducible-Workflows-Book/>

Visit the link embedded in this section for R version control information (it links to renv)

<https://michaeldumelle.github.io/R-Packages-Reproducible-Workflows-Book/extensions.html#renv>

Recommendation for learning more about R packages

<https://r-pkgs.org/>

Recommendation for a detailed introduction to using R with the tidyverse

<https://r4ds.had.co.nz/>