

**U.S. EPA Office of Research and Development  
Board of Scientific Counselors Subcommittee  
Chemical Safety for Sustainability and  
Health and Environmental Risk Assessment National Research Programs  
Virtual Meeting on February 2-5, 2021**

**FEBRUARY 2, 2021**

| TIME (EST)                                                                                              | AGENDA ACTIVITY                                                                                                                                             | PRESENTER                                             |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 12:00 - 12:10                                                                                           | Meeting kick off/FACA rules/expectations/logistics                                                                                                          | Tom Tracy, DFO, OSAPE                                 |
| 12:10- 12:15                                                                                            | ORD Welcome                                                                                                                                                 | Jennifer Orme-Zavaleta, ORD Principal DAA for Science |
| 12:15 - 12:25                                                                                           | Subcommittee Chair Opening Remarks and Introductions                                                                                                        | Katrina Waters, Chair                                 |
| 12:25 - 12:45                                                                                           | CSS NAMs Research and Development Portfolio: Connecting the Dots to Relevance and Acceptance                                                                | Jeff Frithsen, NPD, CSS                               |
| 12:45 - 1:05                                                                                            | HERA Advancing the Science and Practice of Risk Assessment                                                                                                  | Samantha Jones, NPD, HERA                             |
| 1:05 - 1:20                                                                                             | Moving from the StRAPs to Implementation by ORD Investigators                                                                                               | Jill Franzosa, ACD, CCTE                              |
| 1:20 - 1:50                                                                                             | Evolution of NAMs in EPA: From Research to Application                                                                                                      | Rusty Thomas, CD, CCTE                                |
| 1:50 - 2:15                                                                                             | BOSC Subcommittee discussion and Qs/As                                                                                                                      | Katrina Waters, Chair                                 |
| 2:15 - 2:30                                                                                             | NAMs Research Introduction with Charge Question                                                                                                             | Jeff Frithsen, NPD, CSS                               |
| 2:30 – 2:45                                                                                             | <b>BREAK &amp; Transition to Virtual Break-out Rooms</b>                                                                                                    |                                                       |
| <b>CSS SESSION 1: CONCURRENT PRESENTATIONS ON NAMS RESEARCH</b>                                         |                                                                                                                                                             |                                                       |
| <b>Note: Each research topic will be presented in 25 minutes including time for specific questions.</b> |                                                                                                                                                             |                                                       |
| 2:45 - 4:00                                                                                             | <b>SESSION A: Emerging Approaches to Hazard Testing</b>                                                                                                     |                                                       |
|                                                                                                         | 1. High Throughput Phenotypic Profiling                                                                                                                     | Joshua Harrill, CCTE                                  |
|                                                                                                         | 2. High Throughput Transcriptomics                                                                                                                          | Logan Everett, CCTE                                   |
|                                                                                                         | 3. Retrofitting <i>in vitro</i> Systems with Metabolic Competence                                                                                           | Chad Deisenroth, CCTE                                 |
|                                                                                                         | <b>SESSION B: NAMs for Exposure</b>                                                                                                                         |                                                       |
|                                                                                                         | 1. High Throughput Exposure Models (SEEM)                                                                                                                   | John Wambaugh, CCTE                                   |
|                                                                                                         | 2. High Throughput Toxicokinetic Models and IVIVE                                                                                                           | Barbara Wetmore, CCTE                                 |
|                                                                                                         | 3. Non-Targeted Analysis                                                                                                                                    | Jon Sobus, CCTE                                       |
|                                                                                                         | <b>SESSION C: NAMs for Ecotoxicological Applications</b>                                                                                                    |                                                       |
|                                                                                                         | 1. Approaches and Models for Species Extrapolation                                                                                                          | Carlie LaLone, CCTE                                   |
|                                                                                                         | 2. Novel <i>in vitro</i> Methods for Ecological Species                                                                                                     | Brett Blackwell, CCTE                                 |
|                                                                                                         | 3. High Throughput Transcriptomics: A Multi-Species Approach                                                                                                | Kevin Flynn, CCTE                                     |
|                                                                                                         | <b>SESSION D: System-specific Models and Approaches</b>                                                                                                     |                                                       |
|                                                                                                         | 1. Development and Harmonization of Organotypic/Co-Culture Models and Assays to Improve Throughput and <i>In Vivo</i> Relevance in Inhaled Chemical Testing | Shaun McCullough, CPHEA                               |
|                                                                                                         | 2. An Approach Using NAMs for the Evaluation of Inhalation Toxicity in OCSPP Chemical Registrations                                                         | Mark Higuchi, CPHEA                                   |
|                                                                                                         | 3. Neurovascular Unit Modeling and Blood Brain Barrier Function                                                                                             | Tom Knudsen, CCTE                                     |
| 4:00 - 5:00                                                                                             | BOSC Subcommittee discussion and Qs/As                                                                                                                      | Katrina Waters, Chair                                 |
| 5:00                                                                                                    | <b>ADJOURN</b>                                                                                                                                              |                                                       |

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**FEBRUARY 3, 2021**

| <b>TIME (EST)</b>                                                       | <b>AGENDA ACTIVITY</b>                                                                                                                         | <b>PRESENTER</b>        |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 12:00 - 12:10                                                           | Public comments                                                                                                                                | Tom Tracy, DFO, OSAPE   |
| 12:10- 12:15                                                            | BOSC Subcommittee Chair Opening Remarks                                                                                                        | Katrina Waters, Chair   |
| <b>CSS SESSION 2: APPLICATIONS OF NAMs TO AGENCY AND STATE PROGRAMS</b> |                                                                                                                                                |                         |
| 12:15 - 12:30                                                           | NAMs Applications Introduction with Charge Question                                                                                            | Jeff Frithsen, NPD, CSS |
| 12:30 - 1:00                                                            | OCSP-P-TSCA Inventory: Prioritization Proof of Concept                                                                                         | Richard Judson, CCTE    |
| 1:00 - 1:30                                                             | Developmental Neurotoxicity (DNT) <i>in vitro</i> Battery as an Alternative to DNT <i>in vivo</i> Guideline Studies Used by OPP                | Tim Shafer, CCTE        |
| 1:30 - 2:00                                                             | Implementing a Workflow for Exposure Screening of Drinking Water Contaminants of Concern                                                       | Kristin Isaacs, CCTE    |
| 2:00 - 2:30                                                             | Application of NAMs and AOPs to Surface Water Surveillance and Monitoring in the Great Lakes (EPA Region 5) and a Western River (EPA Region 8) | Dan Villeneuve, CCTE    |
| 2:30 – 2:45                                                             | <b>BREAK</b>                                                                                                                                   |                         |
| 2:45 – 3:15                                                             | BOSC Subcommittee discussion and Qs/As                                                                                                         | Katrina Waters, Chair   |
| <b>CSS SESSION 3: DEMONSTRATIONS OF TOOLS</b>                           |                                                                                                                                                |                         |
| 3:15 - 3:30                                                             | NAMs Tools Demo Intro with Charge Question                                                                                                     | Jeff Frithsen, NPD, CSS |
| 3:30 - 4:00                                                             | CompTox Chemicals Dashboard                                                                                                                    | Tony Williams, CCTE     |
| 4:00 - 4:30                                                             | SeqAPASS                                                                                                                                       | Carlie LaLone, CCTE     |
| 4:30 - 5:00                                                             | Factotum: Curation of Exposure-Relevant Public Data                                                                                            | Kristin Isaacs, CCTE    |
| 5:00 - 5:30                                                             | BOSC Subcommittee discussion and Qs/As                                                                                                         | Katrina Waters, Chair   |
| 5:30                                                                    | <b>ADJOURN</b>                                                                                                                                 |                         |

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**FEBRUARY 4, 2021**

| <b>TIME (EST)</b>                                               | <b>AGENDA ACTIVITY</b>                                                                     | <b>PRESENTER</b>         |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------|
| 12:00 – 12:05                                                   | BOSC Subcommittee Chair Opening Remarks                                                    | Katrina Waters, Chair    |
| 12:05 – 12:15                                                   | ORD Implementation                                                                         | Wayne Cascio, CD, CPHEA  |
| 12:15 – 12:25                                                   | Connecting Assessment Needs to HERA Research                                               | Beth Owens, PANPD, HERA  |
| 12:25 – 12:50                                                   | BOSC Subcommittee discussion and Qs/As                                                     | Katrina Waters, Chair    |
| <b>HERA SESSION 1: Applying NAMS to Inform HERA Assessments</b> |                                                                                            |                          |
| 12:50 – 1:00                                                    | Applying NAMs to Inform HERA Assessments with Charge Question                              | Luci Lizarraga, CPHEA    |
| 1:00 – 1:20                                                     | Advancing Read-across in HERA                                                              | Luci Lizarraga, CPHEA    |
| 1:20 – 1:40                                                     | Filling Metabolism Data Gaps in Read-across                                                | Grace Patlewicz, CCTE    |
| 1:40 – 2:00                                                     | Adverse Outcome Pathway (AOP) Footprinting for Mixtures                                    | Jason Lambert, CCTE      |
| 2:00 – 2:40                                                     | BOSC Subcommittee discussion and Qs/As                                                     | Katrina Waters, Chair    |
| 2:40 – 2:50                                                     | <b>BREAK</b>                                                                               |                          |
| <b>HERA SESSION 2: Advancing Systematic Review Methods</b>      |                                                                                            |                          |
| 2:50 – 3:05                                                     | Advancing SR Methods and Tools Intro with Charge Question                                  | Kris Thayer, CPHEA       |
| 3:05 – 3:25                                                     | Organizing and Evaluating Mechanistic Evidence                                             | Catherine Gibbons, CPHEA |
| 3:25 – 3:45                                                     | Automated Data Extraction                                                                  | Michele Taylor, CPHEA    |
| 3:45 – 4:05                                                     | Semantic Ontology Mapping                                                                  | Michelle Angrish, CPHEA  |
| 4:05 – 4:25                                                     | Application of Systematic Evidence Map Methods to Characterize Available Evidence for PFAS | Laura Carlson, CPHEA     |
| 4:25 – 5:00                                                     | BOSC Subcommittee discussion and Qs/As                                                     | Katrina Waters, Chair    |
| 5:00                                                            | <b>ADJOURN</b>                                                                             |                          |

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**FEBRUARY 5, 2021**

| <b>TIME (EST)</b>                                                 | <b>AGENDA ACTIVITY</b>                             | <b>PRESENTER</b>                                     |
|-------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------|
| 12:00 – 12:05                                                     | Meeting kick off/FACA rules/expectations/logistics | Tom Tracy, DFO, OSAPE                                |
| 12:05 – 12:20                                                     | BOSC Subcommittee Chair Opening Remarks            | Katrina Waters, Chair                                |
| <b>HERA SESSION 3: Advancing Dose-Response Analyses and Tools</b> |                                                    |                                                      |
| 12:20 – 12:35                                                     | Advancing Dose-Response Intro with Charge Question | John Vandenberg, CPHEA                               |
| 12:35 – 12:55                                                     | Multi-path Particle Dosimetry (MPPD) Model         | Annie Jarabek, CPHEA                                 |
| 12:55 – 1:15                                                      | Bayesian Model Averaging and BMDS 3.2              | Allen Davis, CPHEA                                   |
| 1:15 – 1:35                                                       | Approximate Probabilistic Analysis (APROBA)        | Todd Blessinger, CPHEA                               |
| 1:35 – 2:10                                                       | BOSC Subcommittee discussion and Qs/As             | Katrina Waters, Chair                                |
| <b>CSS-HERA Closing</b>                                           |                                                    |                                                      |
| 2:10 – 2:30                                                       | Closing Statements and Responses                   | Samantha Jones, NPD, HERA<br>Jeff Frithsen, NPD, CSS |
| 2:30 – 5:00                                                       | BOSC Subcommittee Deliberations                    | Katrina Waters, Chair                                |
| 5:00                                                              | <b>ADJOURN</b>                                     |                                                      |