

# Join us in: Advancing the Adverse Outcome Pathway Concept – An International Horizon Scanning Approach



The Society for Environmental Toxicology and Chemistry (SETAC) is initiating a Horizon Scanning effort to advance the science and application of the Adverse Outcome Pathway (AOP) framework.

## Objective:

**To seek your participation in shaping the direction of the Adverse Outcome Pathway (AOP) Framework and its applications.**

This Horizon Scanning approach will allow us to identify and begin to address recognized, on-going, and remaining issues relevant to the application of the AOP framework to chemical risk assessment in the context of both human and ecological health. Through **your participation**, as a member of the global scientific community, we ask that you:

***Propose questions that consider key outstanding challenges or limitations that must be addressed in order to realize the full potential of the adverse outcome pathway framework in research and regulatory decision-making.***

You can **submit your questions** using the following link (open March 7 – June 30, 2016):  
<https://AOP.sawtoothsoftware.com/login.html>

**Your questions are essential** for developing themes to be addresses during an up-coming, expert-led, 2017 Pellston workshop. Workshop results will be publically disseminated in the form of publications and international presentations at professional meetings.

## Background:

Regulatory agencies and industry worldwide are confronted with the challenging task of assessing the risks of thousands of chemicals to the environment and human health. Traditional toxicity testing strategies rely on whole animal studies, which, in addition to ethical concerns, are cost and time prohibitive. As a result, the utility of mechanistic-based approaches to support chemical safety evaluations have increasingly been explored. One approach that has gained traction for capturing available knowledge for describing the linkage between mechanistic data and apical toxicity endpoints required for regulatory assessments is the AOP framework

(<http://www.oecd.org/env/ehs/testing/adverse-outcome-pathways-molecular-screening-and-toxicogenomics.htm>). A number of workshops and expert meetings held over the past years, however, illustrated the necessity of expert advice for moving the science of AOPs and their applications forward. This Horizon Scanning question solicitation effort is **your opportunity to have your voice heard** in the conversations surrounding the AOP framework and how it may be used, or could be better defined, for regulatory purposes.

**We greatly appreciate your support of this initiative!**

For further information please contact the co-chairs of this workshop, Dr. Carlie LaLone ([lalone.carlie@epa.gov](mailto:lalone.carlie@epa.gov)) and Dr. Markus Hecker ([markus.hecker@usask.ca](mailto:markus.hecker@usask.ca)); Co-Chairs