

**American Chemical Society Fall meeting, Aug. 21-25, Philadelphia, Penn.**

**CINF Session: Beyond Citations: Challenges & Opportunities in Altmetrics-Oral**

**Session Outline** “Assessing the impact of research outputs is becoming increasingly important for scholars, evaluators, and other stakeholders in academia. In addition to the more traditional peer-review and citation-based metrics, the use of alternative metrics seems to be gaining momentum. Altmetrics and usage metrics are a set of new metrics that seek to expand what it means for research outputs to be impactful by measuring a wide range of metrics. Generated from social and other online tools, these metrics aim at demonstrating the attention and engagement materials are receiving that go beyond traditional citation counts. This symposium will provide an overview of the range of these traditional and emerging metrics, and its role in chemistry. Some of the questions that may be addressed: - What are the most important metrics indicators? What are their values and limitations? - What are the current challenges of altmetrics? - How are metrics being used by different stakeholders, including researchers, publishers, grant funders and libraries? - How can libraries use altmetrics in the decision making process, including integration in institutional repositories, and collection management? - How do metrics, specifically altmetrics, relate to impact?”

**Title:** Investigating Impact Metrics for Performance for the US-EPA National Center for Computational Toxicology

**Authors:** Antony Williams<sup>†</sup>, Monica Linnenbrink, Kevin M. Crofton and Russell S. Thomas

**Abstract:** The U.S. Environmental Protection Agency (EPA) Computational Toxicology Program integrates advances in biology, chemistry, and computer science to help prioritize chemicals for further research based on potential human health risks. This work involves computational and data driven approaches that integrate chemistry, exposure and biological data. We have delivered public access to terabytes of open data, as well to a large number of publicly accessible databases and applications, to support the research efforts for a large community of scientists. Many of our contributions to science are summarily described in research papers but to date we have not optimized our contributions to inform altmetrics statistics associated with our work. Critically missing from altmetrics is access to our numerous software applications and web service accesses, as well as the growing importance of our experimental data and models (e.g ToxCast, ExpoCast, DSSTox and others) to the scientific and regulatory communities. This presentation will provide an overview of our efforts to more fully understand, and quantify, our impact on the environmental sciences using a combination of our measurement approaches and available altmetrics tools. *This abstract does not reflect U.S. EPA policy.*