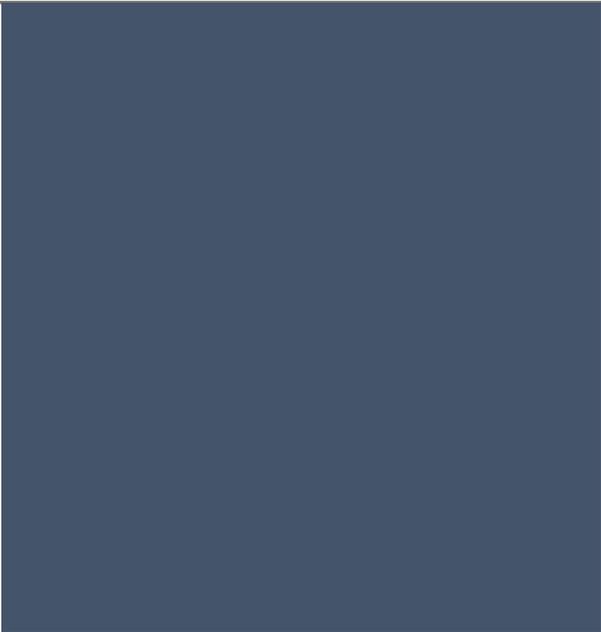


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# US EPA CSS-HERA Board of Scientific Counselors Chemical Safety Subcommittee Meeting

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US EPA CSS-HERA BOSC Meeting – February 2-5, 2021

## CSS Session 3 Slides



The work presented within represents US EPA Office of Research and Development research activities. Material includes both peer reviewed, published results and work-in-progress research. Please do not cite or quote slides.

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# CompTox Chemicals Dashboard

**Antony John Williams**

**[williams.antony@epa.gov](mailto:williams.antony@epa.gov)**

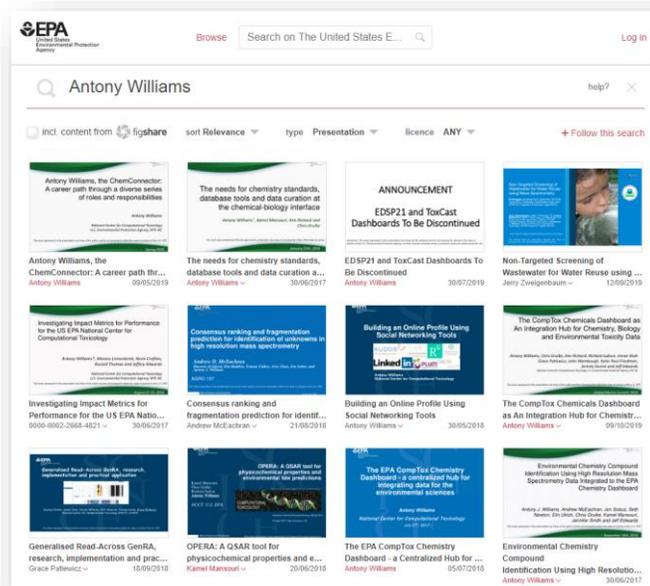
*Center for Computational Toxicology and Exposure, US-EPA, RTP, NC*

*February 3<sup>rd</sup> 2021 : Board of Scientific Counselors meeting*

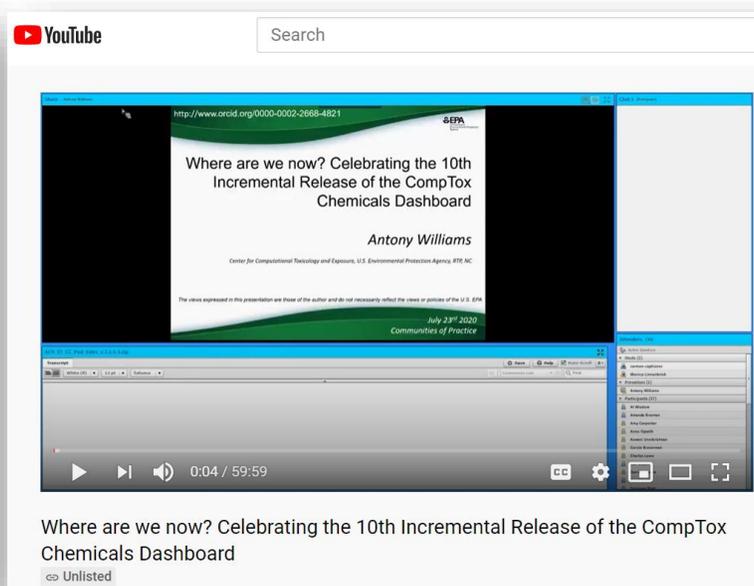
*The views expressed in this presentation are those of the authors and do not necessarily reflect the views or policies of the U.S. EPA*

- **A publicly accessible website** delivering access:
  - ~883,000 chemicals with related property data
  - Experimental and predicted physicochemical property data
  - Experimental Human and Ecological hazard data
  - Integration to “biological assay data” for 1000s of chemicals
  - Information regarding consumer products containing chemicals
  - Links to other agency websites and public data resources
  - “Literature” searches for chemicals using public resources
  - “Batch searching” for thousands of chemicals

- Lots of resources available
  - Presentations: <https://tinyurl.com/w5hq55>
  - Communities of Practice Videos: <https://rb.gy/qsbn01>
  - Manual: <https://rb.gy/4fgydc>
  - Latest News: [https://comptox.epa.gov/dashboard/news\\_info](https://comptox.epa.gov/dashboard/news_info)



Search results for Antony Williams on the EPA website. The results include various presentations and reports, such as "Antony Williams, the ChemConnector: A career path through a diverse series of roles and responsibilities", "The needs for chemistry standards, database tools and data curation at the chemical biology interface", and "ANNOUNCEMENT: EDSF21 and ToxCast Dashboards To Be Discontinued".



YouTube video player showing a presentation titled "Where are we now? Celebrating the 10th Incremental Release of the CompTox Chemicals Dashboard" by Antony Williams. The video is currently at 0:04 / 59:59.

## CompTox Chemicals Dashboard primer videos

The CompTox Chemicals Dashboard is a one-stop-shop for chemistry, toxicity and exposure information for over 875,000 chemicals. Data and models within the Dashboard also help with efforts to identify chemicals of most need of further testing and reducing the use of animals in chemical testing.

Explore the wealth of data and features available in the CompTox Chemicals Dashboard with these instructional videos narrated by EPA scientists.

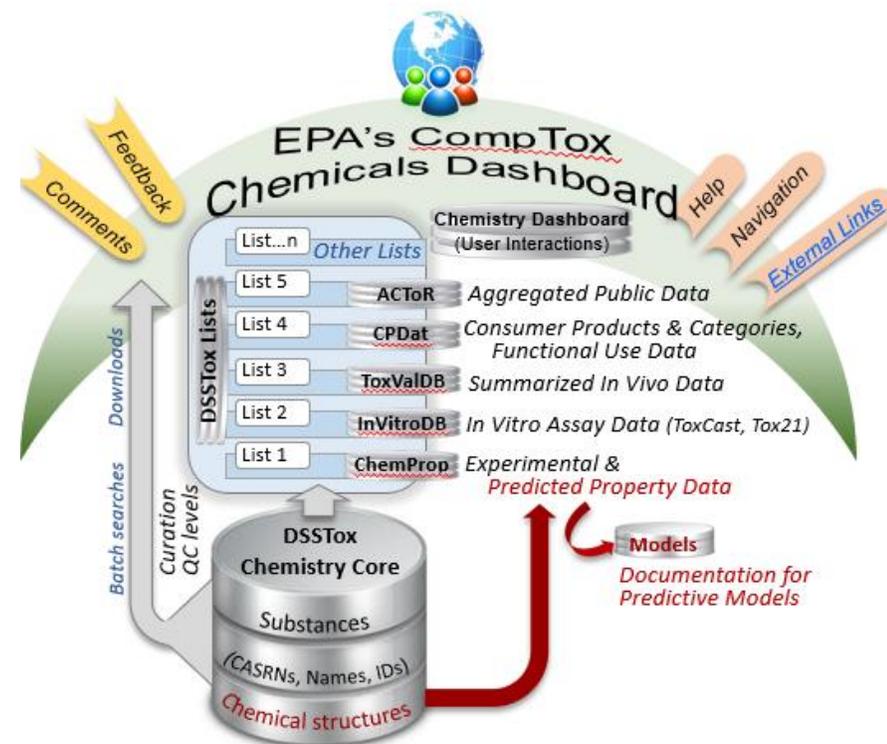
## General Chemistry and Search Capabilities



Screenshot of the CompTox Chemicals Dashboard interface. The main area displays a table of search results with columns for chemical name, CAS number, and other identifiers. A video player overlay is visible in the top right corner, showing a video titled "CompTox Chemicals Dashboard Primer".

# Conclusion

- Dashboard access to data for ~883,000 chemicals (and growing)
- Data aggregation for ALL data sources continues unabated
- Flexible search capabilities continue to expand release-to-release
- Expansion of new modules continues with prototype development
- The application is being totally rearchitected at present to also develop a Public API



# Acknowledgments

- Contact: [Williams.Antony@epa.gov](mailto:Williams.Antony@epa.gov)
- Feedback and follow-up is welcomed! Your questions help
- The dashboard is based on the efforts of many more team members than us. Many collaborators provide data also.



EPA's Center for Computational Toxicology and Exposure