

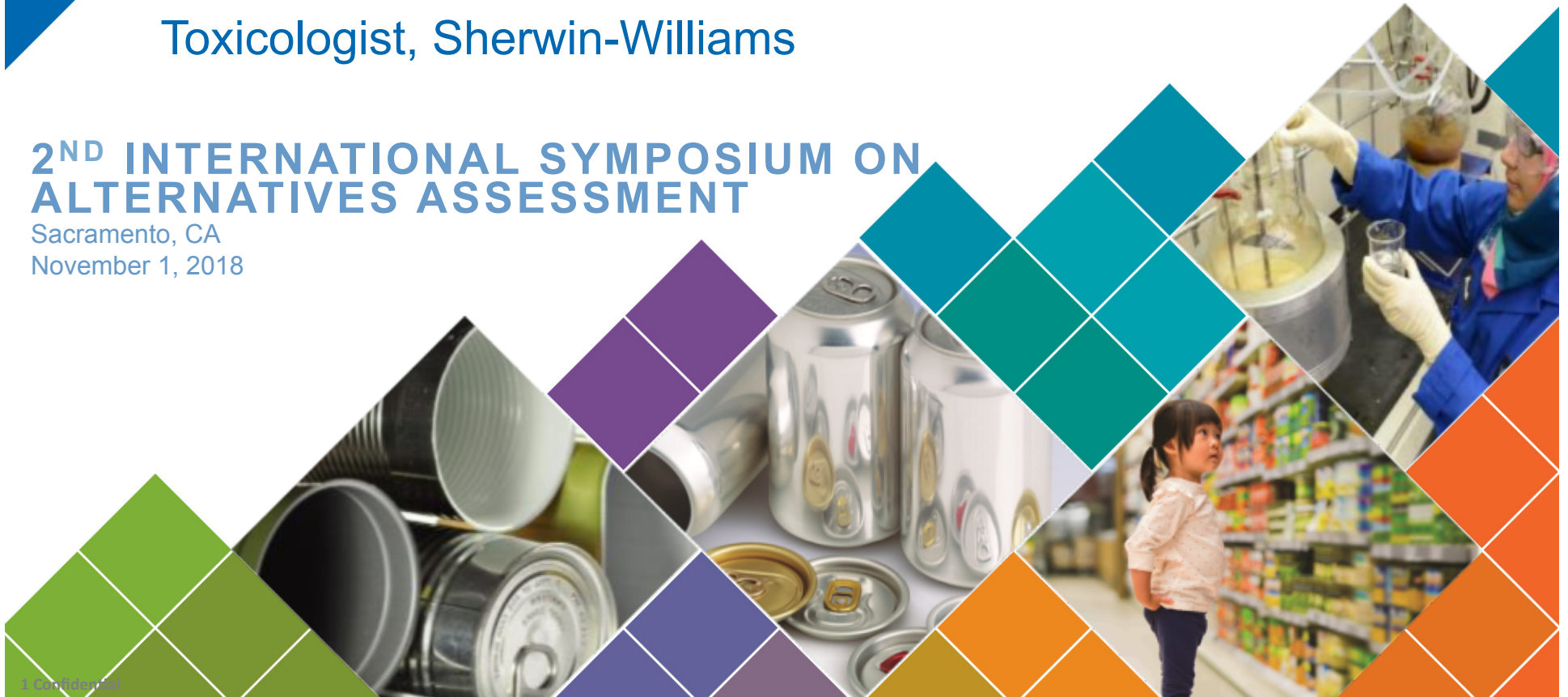
Alternatives Development via Safety By Design: Lessons and Challenges

Ryan Canatsey

Toxicologist, Sherwin-Williams

2ND INTERNATIONAL SYMPOSIUM ON
ALTERNATIVES ASSESSMENT

Sacramento, CA
November 1, 2018



The Challenge

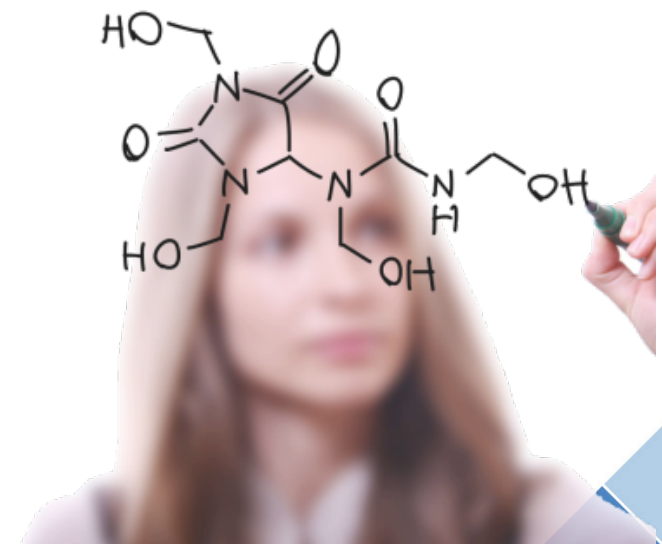
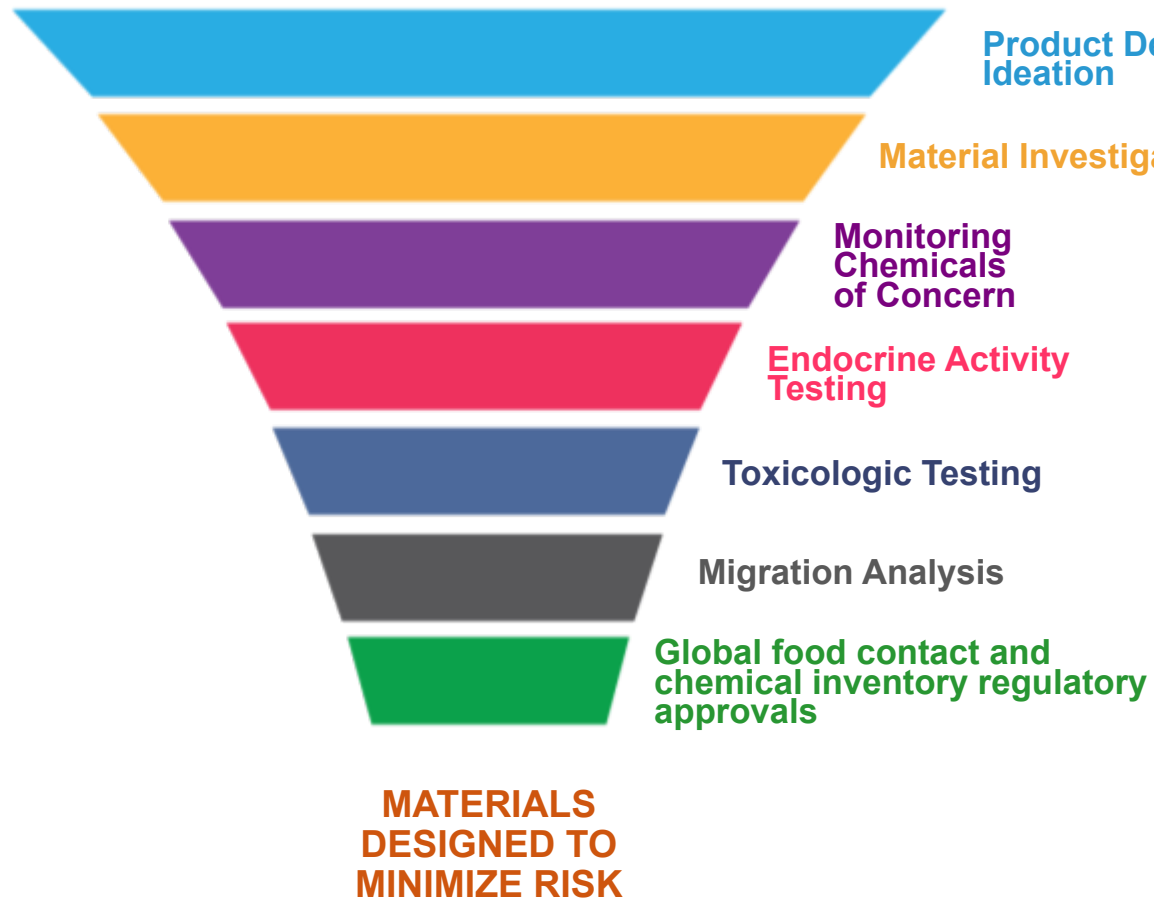
SHERWIN-WILLIAMS®

- Question: How do you make the best coating for metal packaging that goes beyond compliance and strives for more?
- Food Contact Regulatory Agencies focus on conventional toxicity and risk-based safety assessments
- Chemical Inventory Regulatory Agencies require GLP-based health and environmental tests
- Recognized the gap between testing for compliance and a more comprehensive answer



Safety By Design & Bridging the Gap

SHERWIN-WILLIAMS®



Lessons Learned: Outreach to stakeholders

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Regulatory Authorities Engaged



Health Canada Santé Canada

Lessons Learned: Collaboration and Search for Answers

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ENVIRONMENTAL
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Article

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Evidence of Absence: Estrogenicity Assessment of a New Food-Contact Coating and the Bisphenol Used in Its Synthesis

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 PLOS ONE

RESEARCH ARTICLE

Characterizing properties of non-estrogenic substituted bisphenol analogs using high throughput microscopy and image analysis

Adam T. Szafran¹, Fabio Stossi¹, Maureen G. Mancini¹, Cheryl L. Walker¹, Michael A. Mancini^{1,2,*}

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Lessons Learned:

Data Transparency and Increasing Visibility


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- Sherwin-Williams does not just want the studies conducted, but freely available.
- Supporting studies and links to the journal articles are on our website:
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valPure® V70 - the first next generation coating technology with epoxy-like performance

Possible replacement to:

valPure V70 is a replacement for industry standard epoxy-based coatings/linings for light metal packaging

Challenge:

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Grouping approach to chemical regulation

- Grouping strategies for assessing chemicals with structural similarities
- Group-based regulatory restrictions, classification, labelling, etc.
- Increased regulatory efficiency and effectiveness
- Breaks from evidence-based evaluation



Summary

SHERWIN-WILLIAMS®

Lessons

- Outreach and collaboration
- Data transparency
- Increasing visibility

Challenges

- Chemical grouping evaluation process

Valpure® can coatings used in more than 50 billion cans in 2017

Thank you for your kind attention!

