

Green Chemistry Symposium

Sponsored by

CA Department of Toxic Substances Control

Sacramento, CA

October 24th 2006

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California's Chemical Industry

- ***How does one characterize it?***
- ***How big is it?***
- ***What are its impacts?***
- ***What opportunities - challenges does it present?***

California's Chemical Industry

- ***Like the story of a group of blindfolded individuals trying to describe an elephant***
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California's Chemical Industry

- ***Like the story of a group of blindfolded individuals trying to describe an elephant***
 - *How big is it?*
 - *What are its impacts?*
 - *What opportunities - challenges does it present?*
- ***Each person views it through different experiences – none sense the full reality***

Chemical Industry Council of California

- ***Statewide Organization***
- ***Serving needs of California's chemical industry***
- ***Manufacturers, distributors & allied interests***
- ***Wide range of Industrial and agricultural chemicals***
- ***For over 30 years***

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- ***CICC represents a small but active portion of California's total chemical industry***

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How big?

- ***60 member companies – 105 facilities*** ↓
- ***43 manufacturing facilities*** ↓
- ***5 laboratories*** ↓
- ***67 Sales and distribution centers*** ↑

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What impacts?

- ***6,000 direct jobs; 11,000 indirect jobs ↓***
- ***\$280 million direct wages, \$380 million indirect ↓***
- ***\$3 Billion economic impact ↑***

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What opportunities - challenges?

- ***Traditional chemical manufacturing and R&D infrastructure are down-sizing, but distribution is expanding as demand for chemical products increases***
- ***Smaller enterprises and entrepreneurial growth companies continue to surface***

***“Green Chemistry” is new to our Lexicon
but the concepts are
not new to the chemical industry -***

Known within the industry as:

- ***Raw Material Yield***
- ***Energy Reduction***
- ***Pollution Prevention***
- ***Beyond Compliance***
- ***Sustainable Development***
- ***Sustainable Chemistry***
- ***Sustainable Manufacturing***
- ***Triple Bottom Line***
- ***Competitive Advantage***
- ***Discovery R & D Pipeline***

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- ***Triple Bottom Line***
- ***Competitive Advantage***
- ***Discovery R & D Pipeline***
- ***Continuous Improvement in Search of Perfection***

The key to green chemistry is that companies do it not because the government forces them to but rather "... because it's more profitable, cheaper and customers like it."

***Paul Anastas, PhD
Director, Green Chemistry Institute
American Chemical Society.***

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There are no absolutes!

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The pursuit of “Green Chemistry” is a journey - not a destination

***“Green Chemistry” and the chemical industry
are not on a collision path***

***“Green Chemistry” is a predictable next step
in the evolution of the chemical industry***

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***“Green Chemistry” is a predictable next step
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- ***Good for the Environment***
- ***Good for Society***
- ***Good for Economy***

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- *Waste of any sort is a “cost” and hence a reduction of profitability*
- *Listen and learn – companies are acting in their competitive self-interest to discover the next generation of green(er) products*
- *Protect proprietary technology and intellectual property*
- *Don’t impede discovery thru unnecessary legislation and regulation.*

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“What can we do to encourage the chemical industry to adopt Green Chemistry?”

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- *Protect proprietary technology and intellectual property*
- *Don’t impede discovery thru unnecessary legislation and regulation.*
- *Don’t Expect Continuous Breakthrough – Don’t under value Continuous Improvement – Incorporate Pollution Prevention*



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We look forward to participating in constructive dialogue on the science and future policy directions regarding Green Chemistry as it may affect our California chemical industry.



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Thank You