



SAM GEORGE

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PARTNERS FOR POLLUTION  
PREVENTION

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ANNUAL CONFERENCE

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Plainfield, Indiana

# My Topics

- History
- Self Interest
- Reason
- Enlightenment
- Government
- ... and maybe
- Pollution Prevention

# First: History

- 1976 Toxic Substances Control Act (TSCA)
- Sam was working nights at Madison Chemical

# TSCA: Section 2(a) Findings

1. Lots of chemical exposure
2. Some chemicals present unreasonable risks
3. Feds regulate commerce

# TSCA: Section 2(b) - Policy

1. Data should be developed
2. Authority should exist to regulate
3. Authority should NOT impede or burden economy or innovation

## TSCA: Section 2(c): Intent

- Regulate chemicals in a reasonable and prudent manner considering the environment, economy and social impacts of the administrator's actions

# Sam's TSCA Summary

- Chemicals presenting unreasonable risk
- Authority to regulate without impeding innovation
- Reliance on data to balance
- Consider environmental, economic and social impacts



Note the Act Says

# • DATA

- (Not opinion, guesses, anger, convenience, hope, fear, passion, hatred, profit, faith, political correctness ...)

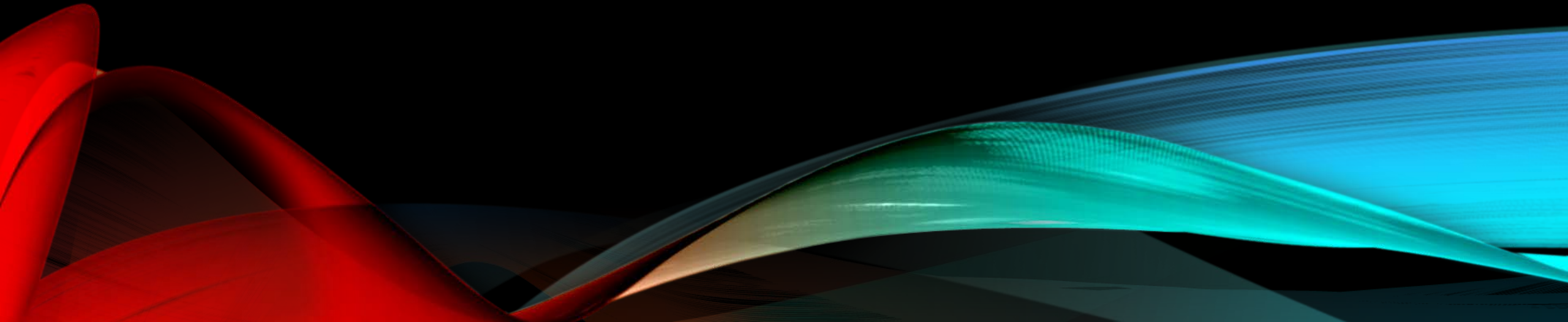


# TSCA Section 2: The Human Condition

- Homo sapiens is very clever at using resources
- Sometimes the uses are dangerous to others
- Being a predator, homo sapiens doesn't naturally consider others
- Dangers, acts and things require government regulation
- Government must balance competing interests
- Reason (data) is how we achieve balance

REASON

IS THE ONLY TOOL WE HAVE



# Now - Back to History

- 1970s and 80s – Quality Management
- 1971 – BS 9000
- 1980s – Sam was plant manager at Madison Chemical
- 1987 – ISO 9000
- 1990 - Pollution Prevention Act

# Pollution Prevention Act of 1990

- Reducing pollution through cost effective changes in production, operation and use of resources
- First mention of "Source Reduction"
- States followed with their own pollution prevention acts

# ISO 9000 Continued to Change ... and still does

- 1994 version first emphasized preventative actions vs just blindly following procedures

# History - Summary

The Firmament:

- Risk identification
- Protection (prevention)
- Regulation
- Balance through data (reason)

# The Creation (of P4P2)

- It was IDEM's idea
- We all thought P2 was good
- Nobody cared who got the credit
- But IDEM did not want to own the organization
- Without IDEM, Madison Chemical would not have joined

# Creation: Summary

- We were all suspicious
- We were all predators
- We all supported P2
- We reached enlightened self interest
- Spinoza was right



# Success Stories

- Bonnie the chemist
- Endocrine disruptors
- Cross dressing trout (in England)
- Nonylphenols
- Industry denied it

ESTRADIOL

VS

NONYLPHENOL





SO WE TOLD BONNIE  
GET THE NONYLPHENOLS OUT!

AND SHE DID ...

# Bonnie Researched, Reformulated, Experimented and the result

- Was safer (no Nonylphenols)
- Worked better
- Longer shelf life
- Cheaper to make
- More profitable!

# Results

- Reduced risk
- Lowered cost
- Improved efficiency
- Eliminated waste

THAT'S P2

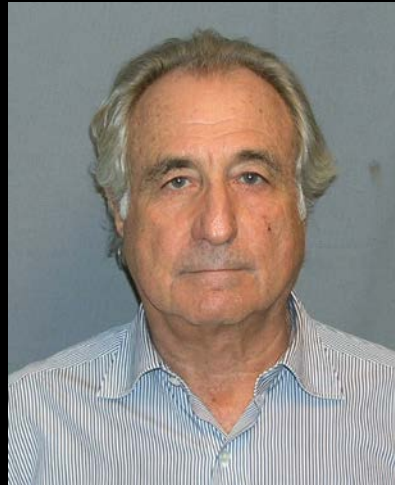
## Other P2 Truths

- P2 is continual improvement
- P2 is sustainability
- P2 is quality management

If we ask for it, we can get it

# Self Interest ... and Some Warnings

- Performance Track lessons
- Industries extremes
  - Bernie Madoff
  - Enron
  - No Endocrine disruption
- Greenpeace
  - Chlorine
- Sierra Club
  - Powerplants



EXTREME POSITIONS MAKE US STUPID

# In Conclusion

- P4P2 is NOT STUPID
- Keep using our brains
- Keep convening