

Green Ribbon Science Panel

What is the Green Ribbon Science Panel (GRSP)?

The Panel provides advice and acts as a resource to the Director of the Department of Toxic Substances Control and the California Environmental Policy Council on a variety...

Why was the Green Ribbon Science Panel Established?

Two laws signed in 2008 by California Governor Arnold Schwarzenegger provided the foundation for advancing the California Green Chemistry Initiative. Chapters 559 and 560...

Who are the Green Ribbon Science Panel Members?

The Green Ribbon Science Panel consists of members with various expertise, and advises the Department on topics related to Green Chemistry, such as implementing the...



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What is the Green Ribbon Science Panel (GRSP)?

The Green Ribbon Science Panel acts as a resource and provides advice to the Department of Toxic Substances Control on a variety of scientific and technical matters related to developing green chemistry and chemicals policy recommendations & implementation strategies.

GRSP Members' Expertise

The GRSP must be made up of experts to provide advice on scientific matters, chemical policy recommendations, and implementation strategies. Panel duties and expertise were established in [Health and Safety Code 25254](#) and [25255](#). The GRSP members have expertise in the following areas:

Chemistry	Pollution Prevention	Materials Science
Chemical Engineering	Cleaner Production Methods	Nanotechnology
Environmental Law	Environmental Health	Chemical Synthesis
Toxicology	Public Health	Research
Public Policy	Risk Analysis	Material and Child Health

GRSP's Future Discussion Topics

As the Safer Consumer Product program moves forward and matures, the GRSP will provide advice and input on a wide range of discussion topics, such as:

- The Department's Alternative Analysis Guide. The Guide provides information and resources for the Alternatives Analysis process established in the Safer Consumer Products regulations. It also relates established alternatives analysis tools and practices to the California requirements.
- The implementation of the 2015-2017 Priority Products Work Plan. Over the next two years, the Department will select Priority Products from the product categories described in the Work Plan. DTSC will use policy priorities along with science-based screening approaches and prioritization criteria to identify potential future Priority Products.

The Department will seek the Panel's review on these approaches and criteria to ensure a robust scientific foundation for its decision making process. Refer to the Past Meetings section on the [GRSP Meetings](#) web page, and the [Subcommittees](#) page to see topics discussed at past meetings. [View the current members of the Green Ribbon Science Panel.](#)

Why was the Green Ribbon Science Panel Established?

In 2008, two laws were signed by California Governor Arnold Schwarzenegger provided the foundation for advancing the California Green Chemistry Initiative. Chapter 559 and Chapter 560 were first steps in developing the information needed to protect Californians from the adverse effects of toxic chemicals, by providing information about chemicals in consumer products.

Under [Health and Safety Code 25254](#), the law establishes the GRSP consist of experts to provide advice on scientific matters, chemical policy recommendations, and implementation strategies. The Panel may perform any of the following:

- ◆ Advise DTSC and the Environmental Policy Council on scientific and technical matters in support of the goals of this article of significantly reducing adverse health and environmental impacts of chemicals used in commerce, as well as the overall costs of those impacts to the state's society, by encouraging the redesign of consumer products, manufacturing processes, and approaches.
- ◆ Assist DTSC in developing green chemistry and chemicals policy recommendations and implementation strategies and details, and ensure these recommendations are based on a strong scientific foundation.
- ◆ Advise DTSC and make recommendations for chemicals the panel views as priorities for which hazard traits and toxicological end-point data should be collected.
- ◆ Advise DTSC in the adoption of regulations required by Green Chemistry, [Article 14, Health and Safety Code](#).
- ◆ Advise DTSC on any other pertinent matter in implementing this article, as determined by DTSC.

Go to the Past Meetings section on the [GRSP Meetings](#) page to see the work done so far by the Panel.

Green Ribbon Science Panel Members

The Green Ribbon Science Panel (GRSP) consists of members with various expertise, and advises the Department on topics related to Green Chemistry, such as the implementation of the Safer Consumer Products regulations. The current members are listed below; [click here to see the former members of the GRSP](#).

As the Safer Consumer Products program moves forward and matures, the GRSP may also tackle other topics. They will also continue to advise the Department on a variety of scientific and technical matters related to Green Chemistry.

Refer to the Past Meetings section on the [GRSP Meetings](#) web page, and [Subcommittees](#) page to see topics discussed at past meetings.

Co-Chairs



Arthur Fong, Ph.D.

Apple Inc.

Service Term: 2009 to Present

Co-Chair: 2014 to Present

Art Fong is the Toxicology and Green Chemistry Program Manager in the Environmental Technologies group at Apple, driving Apple's efforts to remove harmful substances from its product designs and develop safer substitutes. Prior to joining Apple, Art was a senior toxicologist and corporate program manager for chemical management at IBM Corporation.

Art is engaged in a number of collaborative projects to advance the science and practice of green chemistry, alternatives assessment, and toxicology. He is a member of the steering committee and technical committee of the GreenScreen® for Safer Chemicals, a method for comparative chemical hazard assessment that can be used for identifying chemicals of high concern and safer alternatives, and was a member of the steering committee and technical committee of the US EPA DfE Flame Retardants in Printed Circuit Boards (PCBs) Partnership, a project to advance understanding of human health and environmental impacts of conventional and alternative flame retardants in PCBs. He also served on the steering committee of the recently completed United Nations Environmental Programme Global Chemicals Outlook project.

Art is a product of the University of California educational system, receiving his undergraduate degree in genetics from UC Davis, and his Ph.D. in toxicology from UC Irvine.



Kelly D. Moran, Ph.D. (co-chair)

TDC Environmental, LLC

Service Term: 2009 to Present

Co-Chair: 2014 to Present

Kelly D. Moran is President of TDC Environmental, LLC, an environmental consulting firm specializing in water quality and pollution prevention. A chemist by training, for the last 20 years Dr. Moran has worked at the interface of science and public policy, assisting municipalities and state agencies with managing environmental pollution from consumer products.

Dr. Moran has focused on identifying the true sources of pollutants and developing strategies to reduce or eliminate pollutant releases at their sources while avoiding regrettable substitutions. Her work spans a range of pollutants and products types—for example, she co-founded the Brake Pad Partnership and the Urban Pesticides Pollution Prevention Project. Dr. Moran has served on many advisory panels including the California Source Reduction Advisory Committee and the City of San Mateo Planning Commission.

Dr. Moran earned a B.S. in Chemistry with Honors from Stanford University and a Ph.D. in Chemistry from U. C. Berkeley.

Members



Caroline Baier-Anderson, Ph.D.

US Environmental Protection Agency

Service Term: 2014 to Present

Cal Baier-Anderson is a Toxicologist with the US Environmental Protection Agency, Design for the Environment (DfE) Branch. DfE works in partnership with stakeholders from industry, environmental groups, and academia to reduce risks to public health and the environment through the use of inherently safer chemicals. In this capacity she conducts hazard and alternatives assessments to identify safer chemicals to promote informed substitution.

Prior to this position, she served as a health scientist with the Environmental Defense Fund and a part-time Assistant Professor in the Department of Epidemiology and Preventive Medicine at the University of Maryland, Baltimore.

Cal earned a Ph.D. in Toxicology in 1999 from the University of Maryland, Baltimore, after which she served as a technical advisor to communities living adjacent to hazardous waste sites through EPA-funded community assistance programs. Additional work experience includes risk assessment and risk communication consulting.



Ann Blake, Ph.D.

Environmental & Public Health Consulting

Service Term: 2009 to Present

Dr. Blake's experience spans regulatory enforcement, pollution prevention, alternatives analysis and standards-setting as well as legislative policy. Prior to consulting, Dr. Blake worked for the California Environmental Protection Agency's Department of Toxic Substances Control as a hazardous waste inspector and Northern California Pollution Prevention Coordinator.

Dr. Blake holds a B.A. from Mount Holyoke College in Massachusetts, and a Ph.D. in molecular genetics and neural development from the University of Oregon. Dr. Blake's interest in green chemistry lies with the opportunity to create pragmatic solutions with a broad range of stakeholders to move us collectively towards a more sustainable economy that provides jobs and growth while protecting the health of individuals, communities and our environment.

New Member



Elaine Cohen Hubal, Ph.D.

US EPA's Chemical Safety for Sustainability (CSS) Research Program

Service Term: 2016 to

Elaine Cohen Hubal is the Deputy National Program Director (NPD) for US EPA's Chemical Safety for Sustainability (CSS) research program. CSS research advances information and methods to support better-informed, more-timely decisions about chemicals/materials that promote human and environmental health and protect vulnerable species and populations. As Deputy NPD for CSS, Elaine also leads EPA's children's environmental health cross-cutting research roadmap.

Presently, Elaine is serving on detail to the National Health and Environmental Effects Laboratory (NHEERL) as Acting Director of the Integrated Systems Toxicology Division (ISTD). The ISTD applies systems science approaches to translate diverse emerging data and knowledge in biology, toxicology, and epidemiology to improve understanding of the role of exposure to environmental contaminants on health impacts. Division research integrates advanced experimental and computational approaches to understand complex interdependency of the exposures, mechanisms of toxicity, and individual variability in response essential for using results of environmental health studies to enable public health decisions.

Prior to her current appointment, Elaine developed and led ExpoCast, the EPA research program focused on exposure science to support chemical prioritization. Previously, she was Acting Associate Director for Human Exposure Modeling in the Human Exposure and Atmospheric Sciences Division of the National Exposure Research Laboratory (NERL) where she worked to develop and direct NERL's human exposure modeling research program.

Elaine has published in the areas of children's exposure, human health risk modeling, and exposure science to inform design and interpretation of high-throughput toxicity testing. She has served as an expert on a variety of scientific panels and committees including the Voluntary Children's Chemical Evaluation Program (VCCEP) Peer Consultation, the Study Design Working Group for the NCS, and as chair of the WHO IPCS working group on "Identifying Important Life Stages for Monitoring and Assessing Risks from Exposures to Environmental Contaminants." Currently, she is a core member of the Health Canada and Environment Canada Chemicals Management Plan Science Committee.

Elaine received her Ph.D. and M.S. in Chemical Engineering from North Carolina State University and a S.B. in Chemical Engineering from Massachusetts Institute of Technology.



Michael Caringello, MBA

S.C. Johnson & Son

Service Term: 2014 to Present

Mike is Director of Regulatory Affairs at S.C. Johnson & Son with a scope that is global in nature across a diverse section of consumer products. His broad view of the impact of the Safer Consumer Product regulations is based upon the wide range of related activities his career has shown him.

Mike started his career as a research synthetic chemist and formulator in the Specialty Chemicals industry, before moving into Technical Service assisting customers formulate finished goods while obtaining his MBA. While in the lab, he began work in the regulatory area, in areas such as TSCA, MSDS generation, and hazardous waste control. This led him into management positions across a number of areas within chemical industry giants PPG Industries and BASF including government affairs; industrial hygiene; safety; global chemical inventory compliance; environmental compliance in air, water and waste for multiple manufacturing locations; security; food, drug and cosmetic compliance; pesticide product registration; Good Laboratory Practices and current Good Manufacturing Practices; Quality Audits; Environment Health and Safety Audits; transportation of dangerous goods; Product Stewardship; and more.

This was an ideal background for his move into the Consumer Products industry, first at Kimberly-Clark Corporation and then S.C. Johnson. His knowledge of the chemicals that go into the products and how they were manufactured allows for a more complete evaluation and understanding of potential issues, and the ability to make regulatory compliance a value added proposition to business rather than just a dreaded must have.

Throughout, he has believed that the best strategy to comply with a regulation is to work with the regulators, by the local, state, federal or international. A simple question up front can save a lot of wasted effort later; a partnership can lead to mutual understanding and assistance, which is critical at a time when everyone is stretched thin.

Additionally, beside volunteering for too many seasons to count as a youth soccer coach, he has served on a volunteer basis as a board member of not-for-profit agencies and Local Emergency Planning Commissions, the latter of which adds a totally different perspective when considering chemicals to be used.

Mike resides in the suburbs of Milwaukee with his wife and children.



Kenneth Geiser, Ph.D.

University Massachusetts-Lowell

Service Term: 2009 to Present

Co-Chair: 2009 to 2013

Dr. Kenneth Geiser is a University Professor and Professor of Work Environment Emeritus at the University of Massachusetts Lowell. Dr. Geiser is past Co-Director of the Lowell Center for Sustainable Production and served as Director of the Massachusetts Toxics Use Reduction Institute from its founding in 1990 to 2003.

His research and writing focus on cleaner production, toxic chemicals management, international chemicals policy, safer technologies, and green chemistry and, in 2001, he completed a book, *Materials Matter: Towards a Sustainable Materials Policy* published by MIT Press.

As a recognized expert on environmental and occupational health policy, he has served on various advisory committees for the U.S. Environmental Protection Agency, and the United Nations Environment Program and governing boards of several environmental organizations. He is currently the Project Director for the United Nations Environment Program's Chemicals in Products Project and a Senior Fellow with the U.S. Green Building Council.



Helen Holder

Hewlett-Packard Company

Service Term: 2014 to Present

Helen Holder is a Master Engineer at Hewlett-Packard, where she leads the Global Environmental Materials team. In her current role, she evaluates and qualifies materials for use in HP products, including plastics and additives, solders, fluxes, printed circuit board surface finishes, and other electronic materials. In this role, she has introduced environmental and human health criteria into technical specifications to complement traditional performance, cost, safety, and reliability requirements in materials selection.

Ms. Holder started her career at HP in 1993, and has worked in a variety of manufacturing, materials, and procurement roles within the company. She received her Bachelor of Science in Mechanical Engineering from the Massachusetts Institute of Technology and her Master's degree in Mechanical Engineering from the University of California at Berkeley, where she was an HP Resident Fellow.

New Member



Jack Linard, Ph.D.

Unilever Research and Development

Service Term: 2016 to

Dr. Jack Linard obtained his Ph.D. in Inorganic Chemistry at Northwestern University, after receiving his B.S. in Chemistry from Davidson College, Davidson, North Carolina. He has worked for Unilever for over 30 years in a variety of assignments, primarily in laundry and personal care R&D.

Jack's current responsibility is to head up Unilever's Personal Care Regulatory Affairs team for North America. In this capacity he leads Unilever's advocacy efforts on new and proposed regulations so that current and future innovations meet regulatory requirements. In the past several years he has also been actively involved in the implementation of California's Safer Consumer Products regulation.

During his tenure at Unilever, he oversaw Unilever's "Over the Counter" drug programs, technical compliance activities, and the management of external issues impacting Unilever on both a North American and global scale. In addition, he has been an active participant in Wal-Mart's Chemical Sustainability program since its inception in October 2005. He has also been representing Unilever's interests in responding to green chemistry and chemical management initiatives in various states and in the U.S. Congress.

In his role Jack is also active in several trade associations, serving as the chair of the Grocery Manufacturers Association's newly formed Personal Care and Household Products Committee, and representing Unilever on the Personal Care Products Council (PCPC) Scientific and Regulatory Affairs Executive [newly appointed vice-chair] and Communications Committees. He also represented downstream users during his tenure with American Chemistry Council's Responsible Care Advisory Committee from 2010 to 2011.



Timothy F. Malloy, J.D.

UCLA School of Law

Service Term: 2009 to Present

Professor Malloy teaches Environmental Aspects of Business Transactions, Regulatory Lawyering, Regulation of the Business Firm, Environmental Policy and Politics and Contracts. He is the faculty director of the interdisciplinary UCLA Sustainable Technology and Policy Program, and a member of the Center on Environmental Implications of Nanotechnology. He joined the UCLA Law faculty in 1998, after spending a combined 11 years in practice at private firms and at the United States Environmental Protection Agency, Region III.

Professor Malloy's research interests focus on environmental, chemical and nanotechnology policy, regulatory policy, and organizational theory and decision analysis, with particular emphasis on the relationship between regulatory design and implementation and the structure of business organizations. In addition, he has worked and written extensively in the area of risk governance and prevention-based regulation, melding together his academic interests with his work in the Sustainable Technology and Policy Program.

New Member



Mark Nicas, Ph.D.

University of California, Berkeley

Service Term: 2016 to

Dr. Mark Nicas is Emeritus Adjunct Professor in the Environmental Health Sciences Division, School of Public Health, University of California, Berkeley. He served as the Industrial Hygiene Program Director and taught courses in exposure assessment and control. His primary research interest is the mathematical modeling of exposure intensity to indoor air pollutants. Past research was also in the areas of microbial exposure/risk assessment, statistical sampling strategy, and the efficacy of respiratory protection. He is a Certified Industrial Hygienist and has worked in occupational hygiene for forty years. He is Editor in Chief of the Journal of Occupational and Environmental Hygiene, a joint publication of the American Conference of Governmental Industrial Hygienists and the American Industrial Hygiene association. Prior to starting at UC Berkeley in 1993, he worked for the Occupational Safety and Health Administration, Rohm and Haas Company, CalOSHA, and the California Public Health Department.

Mark has a Ph.D. and a M.P.H. in environmental health sciences from UC Berkeley, a M.S. in genetics from the University of Wisconsin, and a B.S. in biology/chemistry from the City College of New York.



Julie M. Schoenung, Ph.D.

University of California, Irvine

Service Term: 2009 to Present

Julie M. Schoenung is a Professor in the Department of Chemical Engineering and Materials Science at the University of California, Irvine. She is also a Co-Director for the University of California Toxic Substances Research and Teaching Program Lead Campus in Green Materials. Professor Schoenung received her masters and doctorate degrees in Materials Engineering from the Massachusetts Institute of Technology and her bachelor's degree in Ceramic Engineering from the University of Illinois at Champaign-Urbana.

Professor Schoenung has many years of experience in studying the materials selection process for all types of materials in a variety of applications. Her research focuses on the analysis of factors that guide the materials selection decision-making process, such as economics, environmental impact and toxicity, cost-performance trade-offs, and market potential. Professor Schoenung uses tools and datasets from several disciplines including management theory, health risk assessment, life cycle assessment and environmental economics in her research approach.



Megan R. Schwarzman, MD, MPH

University of California, Berkeley

Service Term: 2009 to Present

Dr. Megan R. Schwarzman is a research scientist at the University of California, Berkeley Center for Occupational and Environmental Health (COEH), and Associate Director for Health and Environment of the interdisciplinary Berkeley Center for Green Chemistry. Her work focuses on endocrine disrupting substances, reproductive environmental health, U.S. and European chemicals policy, and the implications for human health and the environment of the production, use and disposal of chemicals and products.

She earned her medical degree from the University of Massachusetts, completed her specialty training in Family Medicine at the University of California, San Francisco, and earned a master's of public health in environmental health at the University of California, Berkeley. In addition to environmental health research, Dr. Schwarzman is a clinical instructor at University of California, San Francisco and practices medicine part time at San Francisco General Hospital.



Rebecca Sutton, Ph.D.

San Francisco Estuary Institute

Service Term: 2014 to Present

Rebecca Sutton received her B.S. in Environmental Resource Science from the University of California, Davis and her Ph.D. in Environmental Chemistry from the University of California, Berkeley. Her dissertation explored molecular-scale interactions of ions and natural organic matter with clay mineral surfaces using molecular modeling techniques.

Prior to joining SFEI in 2013, Dr. Sutton was a senior scientist with the research and advocacy non-profit Environmental Working Group, where she conducted research on chemicals of concern in air, water, soil, consumer goods, and people. At SFEI, Dr. Sutton works on various projects for the Regional Monitoring Program, with an emphasis on emerging contaminants.



Ken Zarker

Washington State Department of Ecology

Service Term: 2014 to Present

Ken Zarker has been actively involved with hazardous waste, pollution prevention and toxics reduction programs for over thirty years. Ken has been responsible for managing state environmental programs in Texas and Washington State on hazardous waste permitting, policy, toxics reduction, and sustainability.

Ken has served in a leadership capacity at the national and international levels as Chairman of the National Pollution Prevention Roundtable. Ken serves on several boards and committees, including the Environmental Council of the States (ECOS) Cross Media Committee, Interstate Chemicals Clearinghouse (IC2), Green Chemistry in Commerce Council (GC3) and the Interstate Technology and Regulatory Council (ITRC). Ken has been working actively to support the development of regional green chemistry center in the Pacific Northwest and is involved with state and national chemicals policy development.

Ken holds a B.S. in Environmental Management from the University of Houston at Clear Lake City.

Former Green Ribbon Science Panel Members

Below is a list of former Green Ribbon Science Panel Members. These former Panel members provided DTSC insightful feedback, expert opinions, and advice during the development of the Safer Consumer Products regulations and their implementation. DTSC thanks these members for their service on the Green Ribbon Science Panel.

- William F. Carroll, Ph.D. Occidental Chemical Corporation
Service Term: 2009 to 2015
Co-Chair: 2009-2013
- Jae Choi, Ph.D. Avaya Corporation
Service Term: 2009 to 2013
- Bruce R. Cords, Ph.D. Ecolab Inc.
Service Term: 2009 to 2013
- George P. Daston, Ph.D. The Procter & Gamble Company
Service Term: 2009 to 2013
- B. Tod Delaney, Ph.D. First Environment, Inc.
Service Term: 2009 to 2013
- Richard Denison, Ph.D. Senior Scientist Environmental Defense Fund
Service Term: 2009 to 2013
- Joseph H. Guth, J.D., Ph.D. Science & Environmental Health Network
Service Term: 2009 to 2013
- Lauren Heine, Ph.D. Lauren Heine Group, LLC
Service Term: 2009 to 2013
- Dale Johnson, Ph.D. UC Berkeley
Service Term: 2009 to 2013
- Michael Kirschner, Design Chain Associates, LLC
Service Term: 2009 to 2013
- Richard Liroff, Ph.D. Investor Environmental Health Network
Service Term: 2009 to 2013
- Roger McFadden, Staples, Inc.
Service Term: 2009 to 2013
- Professor Oladele A. Ogunseitan, Ph.D., M.P.H. University of California, Irvine
Service Term: 2009 to 2013
- Robert Peoples, Ph.D. ACS Green Chemistry Institute
Service Term: 2009 to 2013

- Julia Quint, Ph.D. California Department of Public Health
Service Term: 2009 to 2015
- Don Versteeg, Ph.D. The Procter & Gamble Company
Service Term: 2014 to 2015
- Anne Wallin, Ph.D. The Dow Chemical Company
Service Term: 2009 to 2013
- Michael P. Wilson, Ph.D., M.P.H. University of California, Berkeley
Service Term: 2009 to 2013
- Julie B. Zimmerman, Ph.D. Yale University
Service Term: 2009 to 2013

GRSP Meetings

The Green Ribbon Science Panel meets as often as DTSC deems necessary, with consideration of available resources. The meetings are open to the public.

The Panel provides advice and acts as a resource to the Director of the Department of Toxic Substances Control and the California Environmental Policy Council on a variety of scientific and technical matters related to developing green chemistry and chemicals policy recommendations and implementation strategies.

Upcoming Meetings

No upcoming meetings at this time. Check back to see when the next meeting is scheduled, or [sign up for our mailing list](#) to be notified.

Past Meetings

Past meeting archives of the Green Ribbon Science Panel are listed below. The meeting links take you to pages that contain all the supporting documents from the meetings.

2016

> **August 1, 2016 | Webinar**

[Green Ribbon Science Panel \(GRSP or Panel\) Orientation Training Workshop, August 2016](#)

2015

> **November 12-13, 2015 | Sacramento, CA**

[Draft Stage 1 Alternatives Analysis Guide, November 2015](#)

2014

> **October 20-21, 2014 | Sacramento, CA**

[3 Year Priority Product Work Plan & Alternatives Analysis Guidance Synopsis, October 2014](#)

> **June 25, 2014 | Sacramento, CA**

[3-Year Priority Product Work Plan, June 2014](#)

> **April 9-10, 2014 | Sacramento, CA**

[Priority Product Selection Process and Alternatives Analysis Process, April 2014](#)

> **January 29, 2014 | Multiple Locations**

[Reconvened GRSP. Panel Kickoff and Orientation, January 2014](#)

2011

- > **July 14-15, 2011 | Sacramento, CA**
[Safer Alternatives Regulations Development, July 2011](#)
- > **May 5-6, 2011 | Sacramento, CA**
[Safer Alternatives Regulations Development, May 2010](#)
- > **February 4, 2011 | Teleconference**
[Future Process Considerations for the Green Ribbon Science Panel, February 2011](#)

2010

- > **September 9, 2010 | Sacramento, CA**
[Alternatives Analysis, September 2010](#)
- > **May 12-13, 2010 | Sacramento, CA**
[Safer Alternatives Regulations Development, May 2010](#)
- > **March 11 & March 15, 2010 | Teleconference**
[Draft Conceptual Process Flow Chart for Safer Products, March 2010](#)
- > **January 28-29, 2010 | Sacramento, CA**
[Toxics Information Clearinghouse, January 2010](#)

2009

- > **December 10, 2009 | Teleconference**
[Public/Private Partnerships, December 2009](#)
- > **October 14, 2009 | Sacramento, CA**
[Safer Alternative Rules, October 2009](#)
- > **April 29-30, 2009 | Sacramento, CA**
[Safer Alternative Rules, April 2009](#)

RESOURCE DOCUMENTS

Documents Submitted by Green Ribbon Science Panel Members

The following documents were submitted to the public, fellow GRSP members and DTSC for consideration.

2010 Documents:

- [Written comments](#) from GRSP member Julia Quint, Ph.D. on the Outline of the Draft Regulations for Safer Products (6/3/10)

- [Tiered Alternative Analysis Flowchart](#) concept developed by panel members Dr. Ann Blake, Dr. Ken Geiser and Dr. Kelly Moran that was presented to the GRSP on May 12, 2010. (5/12/10)

2009 Documents:

- [Integrating Safer Alternatives into Chemical Policy: Developing a Regulatory Framework for AB 1879 - Chemicals Policy](#) - submitted by Timothy Malloy, JD. (12/22/09)
- [SRC/Sematech Engineering Research Center for Environmentally Benign Semiconductor Manufacturing - Public Private Partnerships](#) - submitted by Dr. Arthur Fong. (12/14/09)
- [Guiding Principles for Chemicals Policy from the Business NGO Working Group - Chemicals Policy](#) - submitted by Mr. Roger McFadden. (5/1/09)

GRSP Subcommittees

Current Subcommittees

At this time, no subcommittee work is scheduled. See Subcommittees Archives below to view information from past subcommittees.

Subcommittees Archives

In early 2011, DTSC and the Green Ribbon Science Panel formed three subcommittees to more deeply discuss issues related to DTSC's Green Chemistry Program. The subcommittees met via teleconference twice prior to May 5-6, 2011 meeting of the entire Panel. At that time, the entire GRSP discussed the issues and provided advice to DTSC. All GRSP subcommittee meetings were open to the public, and included opportunities for the public to make comments to the GRSP.

#1: ALTERNATIVE ASSESSMENT (AS DESCRIBED IN AB 1879)

> **June 1, 2011 | Teleconference**

Meeting Purpose: Discuss issues related to alternative assessments (as described in AB 1879) as part of DTSC's implementation of green chemistry law. This is the first of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on July 14, 2011 and July 15, 2011.

> **June 7, 2011 | Teleconference**

Meeting Purpose: Discuss issues related to alternative assessments (as described in AB 1879) as part of DTSC's implementation of green chemistry law. This is the second of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on July 14, 2011 and July 15, 2011.

#2: TIERED ALTERNATIVES ASSESSMENTS

> June 2, 2011 | Teleconference

Meeting Purpose: Discuss issues related to tiered alternative assessments as part of DTSC's implementation of green chemistry law. This is the first of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on July 14, 2011 and July 15, 2011.

> June 14, 2011 | Teleconference

Meeting Purpose: Discuss issues related to tiered alternative assessments as part of DTSC's implementation of green chemistry law. This is the second of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on July 14, 2011 and July 15, 2011.

#3: QUALITY ASSURANCE FOR ALTERNATIVES ASSESSMENTS

> May 31, 2011 | Teleconference

Meeting Purpose: Discuss issues related to quality assurance for alternatives assessments as part of DTSC's implementation of green chemistry law. This is the first of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on July 14, 2011 and July 15, 2011.

> June 16, 2011 | Teleconference

Meeting Purpose: Discuss issues related to quality assurance for alternatives assessments as part of DTSC's implementation of green chemistry law. This is the second of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on July 14, 2011 and July 15, 2011.

#1: CHEMICAL IDENTIFICATION AND PRIORITIZATION

> April 4, 2011 | Teleconference

Meeting Purpose: Discuss issues related to chemical prioritization as part of DTSC's implementation of green chemistry law. This is the first of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on May 5, 2011 and May 6, 2011.

> April 13, 2011 | Teleconference

Meeting Purpose: Discuss issues related to chemical prioritization as part of DTSC's implementation of green chemistry law. This is the second of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on May 5, 2011 and May 6, 2011.

#2: PRODUCT IDENTIFICATION AND PRIORITIZATION

> April 11, 2011 | Teleconference

Meeting Purpose: Discuss issues related to product prioritization as part of DTSC's implementation of green chemistry law. This is the first of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on on May 5, 2011 and May 6, 2011.

> April 19, 2011 | Teleconference

Meeting Purpose: Discuss issues related to product prioritization as part of DTSC's implementation of green chemistry law. This is the second of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on on May 5, 2011 and May 6, 2011.

#3: DE MINIMIS AND UNINTENTIONALLY-ADDED CHEMICALS

> April 6, 2011 | Teleconference

Meeting Purpose: Discuss issues related to de minimis and unintentionally-added chemicals as part of DTSC's implementation of green chemistry law. This is the first of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on on May 5, 2011 and May 6, 2011.

> April 18, 2011 | Teleconference

Meeting Purpose: Discuss issues related to de minimis and unintentionally-added chemicals as part of DTSC's implementation of green chemistry law. This is the second of two teleconference meetings of this subcommittee that will be held to explore the issues in depth, in preparation for a physical meeting of the entire Green Ribbon Science Panel that will be held in Sacramento, California, on on May 5, 2011 and May 6, 2011.

WHITE PAPERS

The Green Chemistry Alliance submitted a "white paper" on each of the topics addressed by the three Green Ribbon Science Panel Subcommittees:

- ◆ [Green Chemistry Alliance Product Identification & Prioritization White Paper](#)
- ◆ [Green Chemistry Alliance Chemical Identification & Prioritization White Paper](#)
- ◆ [Green Chemistry Alliance De Minimis & Unintentionally Added White Paper](#)