

**California Department of Toxic Substances Control (DTSC)  
P2 E-News, Volume 2, Number 5  
May 2007**

**Welcome to P2 E-News!**

In this issue of **P2 E-News** we include information on Cal/EPA's Green Chemistry Initiative, calendars for the Environmental Chemistry Laboratory seminar series, upcoming DTSC Symposiums on Biomonitoring and Pharmaceuticals and Personal Care Products, Green Chemistry, SB14 workshops, and more.

As always, please feel free to tell your friends and associates about **P2 E-News!** Anyone interested in receiving **P2 E-News** is welcome to subscribe using the DTSC Listserv webpage at <http://www.calepa.ca.gov/Listservs/dtsc/> (scroll down to DTSC **P2 E-News** and click on Subscribe).

Got ideas for future issues? Send your comments or suggestions on how we can better serve you to [P2@dtsc.ca.gov](mailto:P2@dtsc.ca.gov), or call the Pollution Prevention Hotline at (800) 700-5854.

**Pollution Prevention (P2) - Changing the way we think and act so we can reduce or eliminate the creation of waste and pollution**

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**California Launches Green Chemistry Initiative**

Increasing international attention on the health and environmental effects of toxic exposure from everyday products has led to a variety of new laws. The European Union and the Canadian government have already adopted measures to evaluate hazards and reduce exposure to toxic chemicals. This year, the California Legislature is considering more than 40 bills which are aimed at controlling individual toxic chemicals or products. In response to these growing concerns about hazardous products, Cal/EPA's Secretary, Linda Adams, has directed DTSC to lead a Green Chemistry Initiative. DTSC will lead Cal/EPA's boards and departments to fundamentally change how government, business and other stakeholders work together to deal with waste before it is generated. This collaborative, transparent approach is similar to measures adopted by the European Union and the Canadian government to encourage greater manufacturer responsibility.

Green chemistry is a fundamentally new approach to environmental protection, transitioning away from managing toxic chemicals at the end of the lifecycle, to reducing or eliminating their use altogether. When implementing green chemistry, the designers of consumer products and manufacturing processes consider public health and environmental effects of those products at the design phase. Green chemistry practitioners design products and processes that reduce or eliminate the use or generation of hazardous substances.

The Green Chemistry Initiative will develop a coordinated, comprehensive strategy to study the issues and provide recommendations for developing a consistent means for evaluating risk, reducing exposure, encouraging less-toxic industrial processes, and identifying safer, non-chemical alternatives. DTSC Director Maureen Gorsen will manage the Green Chemistry Initiative in collaboration with other Cal/EPA departments and boards, as well as other state and federal government agencies, industry and stakeholders.

Read more information about DTSC's Green Business Initiative at our Green Chemistry page:

<http://www.dtsc.ca.gov/PollutionPrevention/GreenChemistry.cfm>

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**South Coast Air Quality Management District (SCAQMD) Adopts "Clean Air Choices" Certification Program for Commercial Cleaning Supplies**

The SCAQMD has adopted a "Clean Air Choices Cleaner Certification" program for very low-polluting cleaning products used by maintenance and cleaning workers at commercial office buildings, schools, retail stores and hotels. The goal of the program is to increase recognition and use of existing qualifying products and to encourage manufacturers to develop additional qualifying formulations.

The new program is the first step in a measure included in AQMD's draft 2007 Air Quality Management Plan to reduce emissions from consumer products and could lead to future requirements for institutional and commercial cleaning products. Cleaning products targeted for certification include floor care products; all purpose cleaners and degreasers; bathroom and tile cleaners; carpet and upholstery cleaners; glass cleaners; and metal polishes and cleansers. However, any household or janitorial product that satisfies the criteria is eligible for consideration. The use of such products in commercial and industrial settings are responsible for about 2.5 tons per day of smog-forming volatile organic compound (VOC) emissions - more than is emitted from the region's largest oil refinery in one day. For more information about the program, go to [http://www.aqmd.gov/news1/2007/bs4\\_06\\_2007.html](http://www.aqmd.gov/news1/2007/bs4_06_2007.html) or <http://www.aqmd.gov/CleanAirChoices/index.html>

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**Green Business Bubble?**

Is the current focus on the global environment and green business models merely a media fad, or does it signal the beginnings of a profound shift in the way we live and do business? The May 2007 issue of GreenBiz magazine has an excellent column by Joel Makower: "Ten Reasons Why There's No Green Business 'Bubble'." Mr. Makower gives a thoughtful and encouraging answer to the question with ten reasons why he thinks the greening of business will be "...an enduring issue for years to come, regardless of the media's attention span." Read the GreenBiz column online at: [http://www.greenbiz.com/news/columns\\_third.cfm?NewsID=35023](http://www.greenbiz.com/news/columns_third.cfm?NewsID=35023)

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**Biofuels**

**Ethanol byproduct to Biodiesel - Demand for raw materials is driving innovation in the biofuel industry.**

VeraSun Energy Corporation of South Dakota, the nation's second-largest ethanol producer, has plans to extract corn oil from dried distiller's grains, a byproduct of the ethanol process, for use in biodiesel production. Distiller's grain from corn fermentation consists of the protein, cellulose and corn oil that remain behind after the corn sugars and starches are converted to ethanol. The protein content makes it a valuable animal feed, but the oil content of the grain makes it difficult for single-stomached animals like hogs and chickens to digest it. VeraSun plans to have the corn oil extraction unit operating by next year. They will initially be selling the corn oil to biodiesel manufacturing facilities, but they are also evaluating the feasibility of building their own biodiesel production facility.

From a story by Jerry Perkins in the Des Moines Register <http://www.desmoinesregister.com>

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## **Workshops**

### **FYI Speaker Series**

The Environmental Chemistry Laboratory (ECL) is hosting bi-weekly seminars (2nd and 4th Wednesdays) from 2-3 p.m. at the Environmental Chemistry Laboratory in Berkeley. The next three presentations are:

May 23, 2007: "Synthetic Pyrethroid Pesticides - Advances in Analytical Methods Development"

June 13, 2007: "Distribution of pentachlorophenol and PCB metabolites in 1970's California mothers and possible adverse effects on offspring neurodevelopment"

June 27, 2007: "High Levels of Deca-BDE in Peregrine Falcon Eggs from the East Coast and California"

July 11, 2007: "Mobile Lab activities"

August 8, 2007: "Polybrominated diphenyl ethers in California Waste Streams"

Complete Schedule for 2007:

<http://www.dtsc.ca.gov/AssessingRisk/upload/ECLSeminarMar2007.pdf>

For more information, please contact Dr. F. Reber Brown at [frbrown@dtsc.ca.gov](mailto:frbrown@dtsc.ca.gov) and see DTSC's "Emerging Chemicals of Concern" webpage at:

<http://www.dtsc.ca.gov/AssessingRisk/EmergingContaminants.cfm>

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## **Conferences & Symposia**

**Coming up fast! – Don't miss them!**

### **DTSC Biomonitoring Symposium:**

**May 17, 2007 - Thursday**

**9 AM to 12:30 PM**

**Cal/EPA Headquarters Building**

1001 I Street, Sacramento, California

Webcast: <http://www.calepa.ca.gov/broadcast>

DTSC is hosting a half-day Biomonitoring Symposium on May 17 in Sacramento. This event is free and open to the public. It will also be available via webcast. This symposium will feature Dr. Pete Myers, co-author of "Our Stolen Future", and a panel of speakers from California businesses and local government, describing the actions they have taken to remove toxic chemicals from products or services. Representatives from the chemical industry and non-governmental organizations (NGOs) will also present their views on biomonitoring. For more information, please visit our Emerging Chemicals of Concern web page at <http://www.dtsc.ca.gov/AssessingRisk/EmergingContaminants.cfm>.

### **Pharmaceuticals and Personal Care Products**

**May 22, 2007 - Tuesday**

**10:00 AM to 3:30 PM**

Cal/EPA Building, Byron Sher Auditorium

1001 I Street, Sacramento, California

Webcast: <http://www.calepa.ca.gov/broadcast>.

REGISTRATION NOW OPEN! Save the Date! The Department of Toxic Substances Control (DTSC) is hosting a symposium entitled "Pharmaceuticals and Personal Care Products (PPCP) in the Environment" on **Tuesday, May 22**, in Sacramento.

The symposium will provide an introduction to what PPCPs are, information regarding their detection and fate in the environment, and current views on the potential for human health and environmental impacts. The symposium will feature speakers from the U.S. Environmental Protection Agency; the University of California Berkeley; the University of California Riverside; the Southern Nevada Water Authority; Merck & Co., Inc. on behalf of the Pharmaceutical Research and Manufacturers of America (PhRMA) Pharmaceuticals in the Environment (PIE) Task Force; the State Water Resources Control Board; and the California Air Resources Board.

The symposium is free and open to the public. Go to DTSC's Pharmaceutical Waste web page at <http://www.dtsc.ca.gov/AssessingRisk/PPCP/index.cfm> for registration and additional information, including an agenda. Registration is required for on-site attendance, and space is limited. The symposium will also be available via webcast at <http://www.calepa.ca.gov/broadcast>. Webcast attendees are encouraged to register in order to receive notification of future symposia.

For questions about registration, contact Janice Denning ([jdenning@dtsc.ca.gov](mailto:jdenning@dtsc.ca.gov)) at (916) 255-4326 or Sharon Kipp ([skipp@dtsc.ca.gov](mailto:skipp@dtsc.ca.gov)) at (916) 324-2998. For other questions regarding the symposium, contact Tracy Taras ([ttaras@dtsc.ca.gov](mailto:ttaras@dtsc.ca.gov)) at (916) 255-6646. Media: contact Ron Baker at (916) 324-3142.

#### **DTSC Green Chemistry Symposium #2:**

**June 19, 2007**

**9 am to 12:30 pm**

**Cal/EPA Headquarters Building**

1001 I Street, Sacramento, California

Webcast: <http://www.calepa.ca.gov/broadcast>

DTSC is hosting a half-day Green Chemistry Symposium on **June 19** from **9 am to 12:30 pm** at the Cal/EPA Headquarters Building in Sacramento. This event is free and open to the public, and will also be available via webcast. We are currently finalizing the agenda. Please check our Green Chemistry web page for updates:

<http://www.dtsc.ca.gov/PollutionPrevention/GreenChemistry.cfm>

#### **Webinars**

##### **National Institute of Environmental Health Sciences (NIEHS)/U.S. EPA Risk e-Learning series:**

**"Nanotechnology- Environmental Sensors"**

**May 31, 2007 – Thursday**

**11 am - 1 pm PDT**

The NIEHS/EPA will be hosting a webinar entitled **"Nanotechnology- Environmental Sensors"** on **Thursday, May 31 from 11 am - 1 pm**. The webinar is free and open to the public. To sign up, click the "Register" button at the top of this page: <http://www.clu-in.org/conf/tio/nano5/>. This webinar will provide an overview of some of the capabilities and advantages of these nanotechnology-based sensors. Dr. Paul Gilman, Founding Director of the Oak Ridge Center for Advanced Studies (ORCAS), and Dr. Desmond Stubbs (ORCAS) will overview recent collaborations in the development of sensors using nano and micro materials.

Dr. Ian Kennedy, Professor of Mechanical and Aeronautical Engineering (University of California - Davis) will focus on using nanoparticles of lanthanides (rare-earth elements) as an extremely sensitive luminescent label for environmental detection.

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**Statutes and Regulations**

**DTSC Guidance**

**Rechargeable Battery Recycling Act**

DTSC has published a Fact Sheet on **Assembly Bill 1125**, the "Rechargeable Battery Recycling Act." This statute became effective on July 1, 2006, and requires certain retail stores that sell rechargeable batteries to take back spent batteries from their customers. For more details of the Act, see the fact sheet at [http://www.dtsc.ca.gov/HazardousWaste/upload/FactSheet\\_AB1125.pdf](http://www.dtsc.ca.gov/HazardousWaste/upload/FactSheet_AB1125.pdf)

**Legislation Information - Proposed Laws**

California's "Official California Legislative Information" site <http://www.leginfo.ca.gov/bilinfo.html> lets you search the past and current legislative sessions by bill number, keyword or author, then trace the history, analysis and votes on each bill. The histories of all introduced bills are kept, regardless of whether they passed into law or not. The parent legislative information site <http://www.leginfo.ca.gov/> also provides access to all of the California Codes, a resource to find your local legislators, and an explanation of the legislative process. Click on over and give it a try - look under "Bill Information" and search with keywords relating to your industry or interest, or try the terms "hazardous waste" or "biofuel" to see how it works.

This year, the legislative session ends on September 14, 2007. Following are a few of the many environmental bills that are active this session. These are listed for the general interest of the P2-Newsletter readers, and the mention of them does not indicate support or opposition by DTSC. The text of most bills changes over the course of the legislative session, and the summaries below only represent the bill's content at the publishing date of this issue.

**Electronic Waste Act-related bill**

**AB 48 (Saldana):**

This bill would redefine the term "electronic device" to be consistent with the European Union's Reduction of Hazardous Substances (ROHS) directive, which includes: household appliances; information technology and telecommunications equipment; consumer equipment; lighting equipment; electrical and electronic tools; toys, leisure, and sports equipment; medical devices (with the exception of implanted products); and monitoring and control instruments. It would exempt certain electrical and mechanical devices and medical devices that are exempt from the ROHS directive. It would also require that DTSC adopt regulations to prohibit an electronic device from being offered for sale in California if the device is prohibited by the EU, pursuant to the ROHS directive, on and after January 1, 2010.

**Plastics:**

**AB 258 (Krekorian):**

This bill would require the State Water Resources Control Board and the California Regional Water Quality Control Boards, by January 1, 2009, to implement a program for the control of discharges of preproduction plastics from facilities that handle them. The bill would lead to the adoption of stronger requirements on the handling of bulk plastic pellets ("nurdles"), powders and other debris related to plastic manufacturing. Floating "nurdles" and other plastic debris are

becoming a major marine pollutant both visually, as floating debris and beach litter, and biologically, since they absorb and concentrate pollutants such as PCBs, and are mistaken for food by many marine animals. Read the Assembly Committee Analysis at [http://www.leginfo.ca.gov/pub/07-08/bill/asm/ab\\_0251-0300/ab\\_258\\_cfa\\_20070413\\_112446\\_asm\\_comm.html](http://www.leginfo.ca.gov/pub/07-08/bill/asm/ab_0251-0300/ab_258_cfa_20070413_112446_asm_comm.html)

**DTSC Regulations**

DTSC's website has a page that links to the current regulations (Title 22), the regulatory calendar, list of emergency regulations and regulatory concepts; find it at <http://www.dtsc.ca.gov/LawsRegsPolicies/index.cfm>. While you're there, you can insure that you don't miss another comment period on that regulation package you were interested in! DTSC's listserv homepage allows you to get on the mailing list for any or all regulatory packages. The regulatory listservs give you updates on regulation packages as they travel through the regulatory process.

DTSC's current regulatory packages in the 45-day public comment period are:

**Amendment to Land Use Covenants** - Public Comment Period: 04/27/07 - 06/11/07

**Standardized Permit Application Procedures** - Public Comment Period: 03/23/07 - 05/08/07

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**SB 14 News**

If you generated 12,000 kilograms of hazardous waste or 12 kilograms of extremely hazardous waste during 2006, you may be subject to SB14 reporting requirements. Each generator subject to SB 14 needs to prepare 3 documents before **September 1, 2007**: 1) a Source Reduction Evaluation Review and Plan; 2) a Hazardous Waste Management Performance Report; and 3) a Summary Progress Report. The plan and both reports are to be kept onsite for public or regulator review; and only the Summary Progress Report must be submitted to DTSC by September 1, 2007.

**2006 SB 14 Guidance Manual now available online:**

The 2006 version of the Guidance Manual for preparing the SB 14 Plan and Performance Report documents for the 2006 Reporting Year is now available online.

The Guidance Manual can be found by going to the DTSC web page at <http://www.dtsc.ca.gov/> then under Hot Topics, click on the SB 14 link "SB14 Hazardous Waste Source Reduction"

Or, go directly to the SB 14 webpage at URL <http://www.dtsc.ca.gov/PollutionPrevention/SB14/SB14SourceReduction.cfm>

Printed hardcopies of the 2006 SB 14 Guidance Manual will be available in limited supply in June 2007. The phone number to contact for obtaining a printed copy will be announced in the June 2006 P2 E-News.

**SB-14 Workshops have begun!**

DTSC has begun holding SB 14 planning and reporting training workshops throughout the state. Workshops will run through July 27; schedules and location information are available on the

DTSC website at

<http://www.dtsc.ca.gov/PollutionPrevention/SB14/upload/SB14Training20071.pdf>

Facilities and interested parties may also call DTSC at (916) 322-3670 for more information.

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