

CROSS-BORDER ENVIRONMENTAL MANAGEMENT

A Conference Organized by the Cross-Border Policy Research Project graduate class of the Lyndon B. Johnson School of Public Affairs and the Teresa Lozano Long Institute for Latin American Studies of the University of Texas at Austin (UT/Austin)

at the
Eidman Room of the Law School of The University of Texas at Austin
Austin, Texas

February 26 to March 1, 2007

Sponsors:

U.S.-Mexico Border 2012 Program
U.S. Environmental Protection Agency (EPA)
Texas Commission on Environmental Quality (TCEQ)
Lyndon B. Johnson School of Public Affairs, UT/Austin
Teresa Lozano Long Institute for Latin American Studies, UT/Austin
School of Law, UT/Austin
John A. and Katherine G. Jackson School of Geosciences, UT/Austin
Institute for Creativity and Capital, UT/Austin
College of Engineering, UT/Austin
George Kozmetsky Global Collaboratory of UT/Austin
Cross-Border Institute for Research and Development, UT/Austin
UT/Austin Graduate School

There is no registration fee for this conference.

Interpretation services will be provided for all days except Wednesday, February 28.

The Conference will comprise four workshops on important environmental challenges in the U.S.-Mexico Border Region:

Monday all day (February 26) and Tuesday morning (February 27)

Markets and Regulations for Scrap Tires
(of interest to experts and to the general public)

Tuesday afternoon (February 27)

U.S.- Mexico Border Scrap Tire Group
(this is the annual meeting of a binational committee affiliated with the U.S./Mexico Border 2012 Program; everyone is welcome to attend)

Wednesday all day (February 28)

Scrap Tire Workgroup of the EPA Resource Conservation Challenge
(this is the annual meeting of a committee focused on scrap tires in the United States; the morning, but not the afternoon, may be of general interest)

Thursday all day (March 1)

Used Oil Along the Mexican-U.S. Border: Burn, Dump, or Recycle?
(of interest to experts and to the general public)

Monday, February 26, 2007

<p style="text-align: center;">MARKETS AND REGULATIONS FOR SCRAP TIRES</p>

The location for all sessions on Monday (except lunch) will be the Eidman Room of the Law School

7:00 a.m. *Registration, coffee, snacks and informal discussion*

8:00 a.m. *Opening Remarks*

Welcome: Sherburne Abbott, Director, Center for Science and Practice of Sustainability, Office of the Provost, The University of Texas at Austin

Introduction: Rick Picardi, Mexico Team Leader in the Office of Solid Waste, U.S. Environmental Protection Agency

Adriana Oropeza Lliteras, Co-Chair of U.S.-Mexico Border Scrap Tire Group, Office of the Secretary, SEMARNAT

8:20 a.m. *Developing Infrastructure for the Scrap Tire Industry*

Speaker: Michael Blumenthal, Rubber Manufacturers Association

Topic: This talk will cover required legislative and regulatory programs that can help establish a viable scrap tire industry. The presentation will also focus on defining the basic components of the scrap tire industry.

9:00 a.m. *Developing a Scrap Tire Business*

Description: This session will provide information that can help the entrepreneur understand and manage the challenges in setting up a scrap tire business.

Outcome: A better understanding of the markets for scrap tires, processing scrap tires and the business considerations for a start up company.

Moderator: Michael Blumenthal, Rubber Manufacturers Association

Speakers: Terry Gray, TAG Associates, "An Overview of the Markets for Scrap Tires Along the U.S./Mexico Border."

Richard P. Colyar, Sales Manager, Columbus-McKinnon Corporation, "Processing Scrap Tire for Market Applications"

Michael Blumenthal, Rubber Manufacturers Association, Preparing a Business Plan for a Scrap Tire Company"

10:20 a.m. *Break*

10:30 a.m. *Applications and Markets for Scrap Tires*

Description: This session will discuss options for recycling of scrap tires, including: road paving, embankment and other civil engineering applications; tire-derived fuel applications; gasification; other potential uses, including molded rubber products

Outcome: Determine the utility and prospects of different end uses for scrap tires

Moderator: Edward Moderow, Border Affairs, Texas Commission on Environmental Quality

Speakers: Luis Carranza García, CEMEX, "Tire-Derived Fuel: An Industry Perspective"

Gustavo Nuñez, Grupo GCC Cementos de Chihuahua, "Tire-Derived Fuel in Mexico"

Monday, Feb. 26, cont.

Richard S. Williammee, Jr., P.E., District Materials Engineer, Fort Worth District, Texas Department of Transportation, "Use of Tire Bales and Crumb Rubber for Engineering Uses"

Martín Bremer Bremer, Ph.D., Profesor Investigador, Centro de Calidad Ambiental, Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM), "Civil Engineering Experience With Scrap Tires"

12:15 p.m. *Lunch The Border 2012 Program and Scrap Tires: Potential for Cooperation on Scrap Tires Along the U.S.-Mexico Border*

Location: **Space adjacent to the Eidman Room**

Moderator: Steve Niemeyer, Border Affairs, Texas Commission on Environmental Quality

Speakers: Daniel Chacon, General Manager, Border Environmental Cooperation Commission, "The Role of BECC in Evaluating the Feasibility of Scrap Tire Projects on the Mexico-U.S. Border"

Scott Storment, New Projects Division, North American Development Bank, "Financing Opportunities for Scrap Tire Projects Along the Mexico-U.S. Border"

Comments: Lawrence G. Sager, Dean, School of Law, The University of Texas at Austin

1:30 p.m. *How to Locate and Track Scrap Tires*

Description: This session will discuss available methods are available to track and locate clandestine scrap tire piles.

Outcome: Share ways of finding and managing scrap tires.

Moderator: Cynthia Hackathorn, Texas Commission on Environmental Quality

Speakers: Rick Picardi, Co-Chair of U.S.-Mexico Border Scrap Tire Group, USEPA. "Where are the Tires Between Tamaulipas and California?"

Elizabeth Ojeh and Mark Campos, University of Texas at Austin, "Locating Scrap Tires Piles Using Remote Sensing"

Catherine Huybrechts, Endpoint Environmental

California Integrated Waste Management Board (CIWMB) representative. "An Overview of California's Approach to Track the Flow and Fate of Waste Tires"

2:50 p.m. *Break*

3:05 p.m. *Mexican and U.S. State and Federal Laws, Regulations, and Policies on Scrap Tire*

Description: Determine what lessons can be drawn from past state programs and what comprises current successful programs.

Outcome: How government actors can provide incentives to encourage the development of scrap tire markets.

Moderator: Gina Posada, Border Affairs, Texas Commission on Environmental Quality

Speakers: Ramón Sampayo Ortiz, SEMARNAT Delegado in Tamaulipas, "Environmental Policy Along the Border"

Monday, Feb. 26, cont.

Jan Rae Clark, Waste Specialist, Florida, Environmental Management, “The Florida Waste Tire Program”

John Forehand, Texas Commission on Environmental Quality, “Texas’s Waste Tire Program”

4:35 p.m. *End of Session – Vans return to hotel*

6:30 p.m. *Dinner (informal attire) on the Lonestar Riverboat on Lake Austin*

Tuesday morning, February 27, 2007

MARKETS AND REGULATIONS FOR SCRAP TIRES, cont.

The location for all sessions (except lunch) will be the Eidman Room of the Law School

7:00 a.m. *Registration, coffee, snacks, and informal discussion*

8:00 a.m. *Opening Remarks*

Randall Charbeneau, Assoc. Dean, College of Engineering, UT/Austin

8:20 a.m. *Scrap Tires in Border Mexican Communities: Case Studies*

Moderator: Victor Wong, Border Affairs, Texas Commission on Environmental Quality

Speakers: Martin Bremer Bremer, Ph.D., Profesor Investigador, Centro de Calidad Ambiental, Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM), “Experiences of the Land Contamination Task Force in Managing Scrap Tire Sites”

Lic. Norma Rangel Sevilla, Agencia de Protección al Medio Ambiente y Recursos Naturales, “Nuevo Leon’s Waste Tire Policies and Management Experiences”

Lic. Jorge Leal Tovias, Control Ambiental, Municipio de Matamoros

Ing. Gustavo Pantoja, City of Nuevo Laredo, “Nuevo Laredo’s Hazardous Waste Program”

10:00 a.m. *Break*

10:15 a.m. *Scrap Tires in Border U.S. Communities: Case Studies*

Description: This session will focus on challenges with real communities of eradicating scrap tire piles and handling the generation of new scrap tires.

Outcome: A better understanding of the circumstances faced by states and local municipalities in control of scrap tires.

Moderator: Edward Moderow, Border Affairs, Texas Commission on Environmental Quality

Speakers: Jorge Zornberg, Ph.D., The University of Texas at Austin, “The Texas Experience in Civil Engineering Applications of Waste Tires”

Paul Ganster, Ph.D., Director, Institute for Regional Studies of the Californias, San Diego State University, “Cross Border Trade in Tires”

Hector Chavez, Public Works Director, City of Eagle Pass, “How Eagle Pass Is Addressing Waste Tires”

Peggy Umphres-Moffett, President, Zapata County Chamber of Commerce, “Challenges in Monitoring Scrap Tires”

11:55 a.m. *Lunch Abatement and Control of Scrap Tire Stockpiles*

Moderator: Ross Pumfrey, Border Affairs, Texas Commission on Environmental Quality

Speaker: Terry Gray, “Abatement and Control of Scrap Tire Stockpiles: An Overview of U.S. and Mexico-U.S. Border Experience”

Tuesday, February 27, cont.

12:45-2:15 p.m. *Scrap Tire Removal – Best Practices*

Moderator: Denise Kennedy, DK Enterprises

Speakers: Denise Kennedy, DK Enterprises, “Cost Factors in Scrap Tire Removal”
Rhonda Zimmerman, Michigan Department of Environmental Quality, “Best Practices for State Regulation of Scrap Tire Removal”

Craig Detweiler, Entech, Inc., “Managing A Tire-Removal Project”

Emily Pimentel, Program Manager, US-Mexico 2012 Border Program, Waste Management Division, Region 9, “Tire Removal in Mexicali, Mexico”

2:15 p.m. *End of session*

Tuesday afternoon, February 27, 2007

U.S.-MEXICO BORDER SCRAP TIRE GROUP

Note: The Border Scrap Tire Group is a binational committee affiliated with the U.S./Mexico Border 2012 Program that meets once each year. A major purpose is to foster progress on border scrap tire projects being implemented by a variety of stakeholders by working together under a single strategic framework, sharing knowledge so that one project can benefit other projects, and coordinating future direction and projects.

The location for all sessions (except lunch) will be the Eidman Room of the Law School

2:30 p.m. *Opening Remarks*

Welcome: Victoria Rodriguez, Ph.D., Professor of Public Affairs and Dean of the Graduate School of The University of Texas at Austin

Introduction:

Speaker: Rick Picardi, Co-Chair of U.S.-Mexico Border Scrap Tire Group, USEPA/Washington

2:40 p.m. *Introductions by Participants*

3:00 p.m. *Informal Roundtable: Accomplishments and Ongoing Border Scrap Tire Projects*

(Each speaker has five minutes; handouts will be available)

3:10 p.m. *U.S.-Mexico Border Scrap Tire Integrated Management Initiative*

Speakers: Rick Picardi, USEPA, and Emily Pimentel, USEPA

3:20 p.m. *Summary Action Plans of U.S.-Mexico Border Scrap Tire Integrated Management Initiative*

Speaker: Ellie Kanipe, USEPA, Office of Solid Waste International Team.

3:30 p.m. *Inventory of Tire Piles Along the Border*

Speaker: Rick Picardi, USEPA/Washington

3:40 p.m. *Progress in Scrap Tire Pile Clean-ups*

Speakers: Robert Snowbarger, USEPA, Region 6

Emily Pimentel, USEPA, Region 9

3:50 p.m. *Update on Tire Flow Study along the California-Mexico Border Region*

Speaker: Paul Ganster, Ph.D., San Diego State University

4:00 p.m. *Update on Scrap Tire Compliance and Enforcement in California*

Speaker: Lillian Conroe, California Integrated Waste Management Board

Tuesday, February 27, cont.

4:10 p.m. *Update on City of Eagle Pass Scrap Tire Projects*

Speaker: Hector Chavez, City of Eagle Pass, Texas

4:20 p.m. *U.S.-Mexico Scrap Tire Management Experience Handbook*

Speaker: Terry Gray, TAG Associates

4:30 p.m. *Locating and Inventorying Waste Tires Using Aerial Photography and Satellite Imagery*

Speakers: Marco Campos and Elizabeth Ojeh, LBJ School of Public Affairs, The University of Texas at Austin

Catherine Huybrechts, Endpoint Environmental

4:45 p.m. *Update on Border Legislation*

Speaker: Senator Eliot Shapleigh, Texas State Senate, on behalf of the Border Legislative Conference, Council of State Governments-West

4:55 p.m. *Break*

5:05 p.m. *Basic Elements Necessary for Successful Market Development*

Speaker: Michael Blumenthal, Rubber Manufacturers Association

5:15 p.m. *New Approaches to Pyrolysis of Scrap Tires*

Speaker: Ing. Gustavo Flores Alfaro, Grupo Consultor Industrial

5:25 p.m. *Open Discussion: Ideas for Promoting Scrap Tire Market Development in U.S.- Mexico Border Area*

5:35 p.m. *Open Discussion: Selection of Initial Scrap Tire Market Development Projects*

5:45 p.m. *Open Discussion: Clarify Next Steps*

6:15-6:30 p.m. *Wrap-up*

Wednesday, February 28, 2007

**Meeting of the Scrap Tire Workgroup of the
Resource Conservation Challenge (RCC)**

Note: The Resource Conservation Challenge (RCC) is a national effort by the U.S. EPA to conserve natural resources and energy by managing materials more efficiently. The RCC Workgroup on Scrap Tires is a portion of that program. Focused only on the United States, the members of this workgroup represent state programs, industry, academia, and EPA.

The morning sessions may be of interest to persons who are not part of the Workgroup, but the afternoon sessions are dedicated to very specific review of detailed action plans and not likely to be of interest.

The location for all sessions (except lunch) will be the Eidman Room of the Law School

7:00 a.m. *Registration, coffee, snacks, and informal discussion*

8:00 a.m. *Opening Remarks/ Welcome*

 Welcome: James Steinberg, Ph.D., Dean, LBJ School of Public Affairs

 Moderator: Tab Tesnau, EPA Workgroup Lead for RCC Scrap Tire Workgroup

 Speaker: Buddy Garcia, Deputy Secretary of State, State of Texas

8:25 a.m. *Update on Status of the RCC Scrap Tire Workgroup Committees*

 Committee Chairs will each make a presentation:

 Goals and Stockpile Reduction - Allan Lassiter, Virginia

 Ground Rubber - Calvin Young, California IWMB

 Civil Engineering - Todd Marvel, Illinois EPA

 Rubberized Asphalt – Sergi Amirkhanian, Clemson University

 Tire-Derived Fuel – George Gilbert, Kentucky DEP

9:45 a.m. *Break*

10:00 a.m. *National Markets Perspective*

 Speaker: Michael Blumenthal, Rubber Manufacturers Association (RMA)

10:20 a.m. *Working session for the Goals and Stockpile Reduction Committee*

 Speaker: Allan Lassiter, Virginia DEQ
 - Review of 2005 RMA Market Report; determination of status of 2005 Goal
 - Review of detailed State data not available in the Report
 - Design and Committee Assignments for Project #1- "State Data Assistance Effort"

11:20 a.m. *Feasibility of developing "State Tire Program Approaches- A Prospectus"*

 Moderator: Allan Lassiter, Virginia DEQ

Wednesday, February 28, cont.

11:45 p.m. ***Lunch***

1:00 p.m. ***Breakouts Part 1 - Working Session for Civil Engineering and Tire Derived Fuel***

Discussion Leaders: Todd Marvel and George Gilbert

2:15 p.m. ***Breakouts Part 2 - Working Session for Ground Rubber and Rubberized Asphalt***

Discussion Leaders: Calvin Young and Sergi Amirkhanian

3:30 p.m. ***Break (end of meeting for those who need to leave early)***

3:45 p.m. ***Discussions on Future RCC Direction and Identification of New Areas of Interest for the Workgroup*** (come prepared with ideas)

Moderator: Tab Tesnau, EPA

4:00 p.m. ***Report-out from Committees including***

- Evaluation of progress in breakout sessions
- Evaluation of needs in order to continue work of action plans
- Confirmation of commitments

Speakers: Committee Chairs

4:45-5:15 p.m. ***Wrap Up***

Tab Tesnau, EPA

More information on the RCC Scrap tire workgroup and their action plans can be viewed at the following EPA website: <http://www.epa.gov/epaoswer/non-hw/muncpl/tires/workgroup.htm>

Thursday, March 1, 2007

**USED OIL MANAGEMENT ACROSS THE U.S.-MEXICO BORDER:
BURN, DUMP, OR RECYCLE?**

The location for all sessions (except lunch) will be the Eidman Room of the Law School

7:00 *Registration, Coffee and snacks*

[During registration a workstation will show a videotape of a Delaware program that reuses oil and oil filters.]

8:00 *Opening Remarks*

Welcome: Eric J. Barron, Ph.D., Dean, John H. and Katherine G. Jackson School of Geosciences,
The University of Texas at Austin

8:20 *Used Oil as a Resource*

Description: Discussion of the volume and fate of used oil in the U.S. and Mexico.

Moderator: Ross Pumfrey, Border Affairs, Texas Commission on Environmental Quality

Speakers: Donald Smolenski, General Motors, World-wide Facilities Group, Environment
Services, "GM's Disposal and Reuse of Oil"

Amanda Van Epps, Alicia Williams, and Sonia Uribe, LBJ School of Public
Affairs, "A Survey of Oil Management Policies in the U.S. and Mexico"

9:00 *Encouraging Used Oil Collection: Successes and Challenges*

Description: Determine what lessons can be drawn from successful state programs and what
challenges face other programs at the state and local level.

Outcome: Share successful strategies for increasing used oil collection.

Moderator: Gina Posada, Border Affairs, Texas Commission on Environmental Quality

Speakers: Scotti Lee, Ph.D., Owner, Oil Change Express, New Castle, Delaware

Glenn Gallagher, Used Oil Research Analysis Unit, California Integrated Waste
Management Board

Harold Heine or Victoria Heine, H and H Oil, Pflugerville, TX

10:30 *Break*

10:45 *Non-Disposal Options for Used Oil*

Description: This session will discuss the two primary options for disposal of used oil after collection:
burning as fuel and re-refining.

Outcome: Gain perspective on the benefits and drawbacks of these two options.

Moderator: Steve Niemeyer, Border Affairs, Texas Commission on Environmental Quality

March 1, cont.

- Speakers: Mike Ebert, Safety-Kleen Systems, Inc., “Oil Re-refining and Non-Disposal Options for Used Oil”
Elva Denisse Varela-Olivas, Attorney, Baker and McKenzie, “Non-Disposal Options for Used Oil in Mexico”
Armando Barajas and Alejandro Almaguer, Residuos Industrias Multiquim (RIMSA), “Recycling Oil in Nogales, Sonora”

12:15 p.m. *Lunch: Border 2012 and the Future of Used Oil Along the Mexico-Texas Border*

- Introduction: Bryan Roberts, Ph.D., Director, Teresa Lozano Long Institute for Latin American Studies, UT/Austin
Speaker: Arturo Nuñez, Director of Projects—New Sectors, North American Development Bank, “Financing Opportunities for Used Oil Projects Along the Mexico-U.S. Border”

1:30 p.m. *Developing Markets for Used Oil*

- Description: Determine what obstacles exist that discourage the development of used oil markets and what opportunities present themselves for encouraging these markets.
Outcome: Ideas for policy changes that could encourage proper disposal and re-use of used oil.
Moderator: Amanda Van Epps, LBJ School of Public Affairs, UT/Austin
Speakers: Olayinka Ogunsola, Ph. D., Program Manager, Future Oil and Gas Resources, U.S. Department of Energy, “DOE Used Oil Re-refining Study to Address Section 1838 of the Energy Policy Act of 2005”
Mr. Scott Parker, Executive Director, Association of Responsible Recyclers
Lic. Jose Mario Sanchez Soledad, PROFEPA – Chihuahua

3:00 p.m. *Break*

3:15 p.m. *Best Practices in Used Oil Regulation and Management*

- Description: This session will discuss best practices in the regulation and management of used oil.
Moderator: Edward Moderow, Border Affairs, Texas Commission on Environmental Quality
Speakers: Professor Biol. Alma Leticia Figueroa Jiménez, Instituto de Ciencias Biomedicas, Universidad Autónoma de Juárez, “Best Practices in Used Oil Management in Mexico”
Sue Rodenbeck Brauer, Used Oil Expert, U.S. EPA/Region 5, “Compliance with Used Oil Standards”
Representative Member, Association of Responsible Recyclers

4:45 p.m. *End of meeting*

Conference Proceedings

All presenters have been invited to submit a paper for peer review, for inclusion in a proceedings volume to be published either by The University of Texas at Austin and/or a university in Mexico.