

DEER PARK COMMUNITY ADVISORY COUNCIL

1996 ANNUAL REPORT

Prior to the keeping of this historical record, the DPCAC had met 60 times from March 1990 to November 1995. Meeting notes from all meetings are filed and a draft news article is available for almost all meetings since May 1993.

MONDAY, JANUARY 22, 1996 The 61st meeting was held at the Houston Area Contractors Safety Council facility on Center Street and included a tour of the training center. It was hosted by the six smaller DPCAC member companies (Geon, Hampshire, ITC, Paktank, Rohm and Haas Lone Star, Rollins). Fred Connell, executive director of HACSC, described the work of the council and the changes in safety during the years. The council offered nearly 200,000 units of training last year to contractors who work for one of the major contracting firms in the area or who are hired directly by the industrial plants. Bobby Yates, DPCAC member and board member of HACSC, talked about the steps taken to promote safety by contractors such as his employer, Mobley Industrial Painting. Of most interest to community members during the discussion were the pros and cons of having all plants use the same tones in their on-site warning sirens. No chemical-of-the-month presentation was made.

MONDAY, FEBRUARY 26, 1996 The 62nd meeting was held at the Occidental Chemical Battleground facility with OxyChem hosting. Karen King of OxyChem presented the chemical of the month: hydrogen chloride. Bob Davidson of ENSR Engineering described the study the firm conducted for the City of Houston to determine trends and problem areas regarding toxicity in the Houston Ship Channel. Accompanying him to respond to questions were ENSR's Karen Christenson and Jim Horn. Measuring toxic substance concentrations in water, sediments, and edible fish and crabs, the study looked not only at the channel, as did previous studies, but also at tributaries and side bays. Three sampling stations were placed in Patrick Bayou, which receives discharges from OxyChem, Lubrizol, Shell, and the City of Deer Park. Ted Brenneman of OxyChem described the study that is being planned by the three plants to address EPA concerns about the "hot spots" found in the bayou. There are chlorine and metals sources for the discharge into the bayou, and the study is not only in keeping with the plants' commitment to Responsible Care but also will add to the body of knowledge being accumulated by chemical and chlorine manufacturers as well as EPA. The work plan is currently being finalized. DPCAC asked to be updated routinely as to the status of work and given a report when the study is complete.

MONDAY, MARCH 25, 1996 The 63rd meeting was held at the Rohm and Haas Texas plant from 6:00 - 9:00 p.m. It featured three speakers with varying perspectives on the impacts of the Clean Air Act in Harris County. Liz Johnson of the Texas Natural Resource Conservation Commission coordinates implementation of the state's efforts to comply with the federal act in the eight county area surrounding Houston. Johnson spoke about the kinds of regulations to take effect over the next few years. Dewayne Huckabay chairs the Houston-Galveston Area Council Regional Air Quality Planning Committee public outreach working group known as RAQPC. Huckabay talked about Houston's not attaining the ozone standard and the multiple efforts that must be made between now and 2007 to come into compliance. Winnie Hamilton of the Galveston-Houston Association for Smog Prevention, finds the standards for ozone and fine particulates do not adequately protect human health. Members asked for more information about the health studies that led Hamilton to her conclusions. Judy Anderson of Rohm and Haas Lone Star presented styrene as the Chemical of the Month.

MONDAY, APRIL 22, 1996 The 64th DPCAC meeting was held at Lubrizol. The main work of the evening was done in small groups, with each group reviewing a folder of materials relating to one of the main topics DPCAC has covered in its history. The topics included waste management, SARA Title III, air and water quality, potential health effects, transportation, Responsible Care and CAER, and other. The CAC is creating an orientation manual that will provide newcomers with background information sufficient to allow them quickly

to feel comfortable joining the discussion. Members identified the key learnings on their topic, the key achievements DPCAC has had related to that topic, additional information needed to explain the topic, and any errors or organizational changes recommended. The results of the small group work will be summarized and mailed to the CAC for comments. If there are any major concerns or disagreements with the draft, they will be discussed at the next meeting. The effort served to reacquaint members with the topics. The materials will also be used as the CAC establishes its Speakers Bureau.

Frank Renfro of Empak, a division of Pakhoed not part of the CAC, updated members on a recent fire and explosion that occurred when they were unloading waste alcohol. The CAC expressed concern that there had been no message on the CAER line for hours after the event and learned that Empak is changing its procedures to address this concern. Members also asked for a report when the cause is known. Jerry Neel of Rollins discussed recent news coverage about the burning of PCBs from other countries at the Rollins incinerator. EPA recently lifted the ban on importation of PCBs to permit their burning in the US. Rollins has incinerated PCBs since 1981. With the decline of the domestic market, they do not expect the volume to increase as a result of the burning of the imported PCBs.

TUESDAY, MAY 28, 1996 The 65th meeting was held at Shell's South Conference Center. The economic impacts of environmental improvements were explored by John Holden of Shell, Ralph Kennedy of Rohm and Haas Texas, and Paul Pondish of the City of Deer Park Public Works Department. After explaining how the cost effectiveness of environmental improvements is calculated by determining the cost to reduce a ton of emissions, the speakers provided examples of environmental improvements and how this formula played out. They ended the presentation by showing the range of possible costs associated with impending changes in environmental regulations. Members honored Frankie Mefford for her years of outstanding service; Mefford is moving to Oklahoma.

MONDAY, JUNE 24, 1996 The 66th meeting was held at the Monument Inn, hosted by Geon, Hampshire, ITC, Paktank, Rollins, and Rohm and Haas Lone Star. Bill Pasko of Hampshire presented the chemical of the month, naphthalene. John Holden, Shell environmental manager, and Sandi Hoover, Houston Audubon Society, presented the findings of the Houston Foresight Committee. Hoover served as one of 32 members of the committee and Holden was an alternate for one of the industry members of the diverse group. The Foresight Committee identified 19 environmental risks for the eight county area that includes Houston, and ranked those risks from highest to least risk after placing them in one of four categories of impact: regional, community, global, and natural systems. The two speakers summarized how each of the 19 environmental concerns was ranked and why it was considered a concern. DPCAC members found some of the rankings surprising. They also asked whether any policy recommendations will be developed as a result of the work to date.

MONDAY, AUGUST 26, 1996 The 67th meeting was held at OxyChem's Battleground plant and focused on organizational matters. Responding to a subcommittee's recommendations, DPCAC agreed to a pilot program whereby plants will complete written update forms on a rotating basis to provide members with something to help them share information with the community. Oral updates remain the same. They will evaluate the quarterly update process in January. To assure input to DPCAC from non-management personnel, members agreed to bring in more workers as presenters and to offer more contact between members and operators during tours. DPCAC community members will also contact workers they know from the community to seek their input about DPCAC and its work. Plants will encourage DPCAC to participate in audits and other special activities. After trying these things, a subcommittee will consider whether additional worker members are needed. The same subcommittee is also exploring how to increase interaction with students, preferring to work through existing organizations rather than form a Junior CAC. A subcommittee is also developing a proposal for DPCAC to evaluate itself. Butadiene was the chemical of the month with ITC making the presentation.

MONDAY, SEPTEMBER 23, 1996 The 68th meeting of DPCAC was held at Rohm and Haas Texas. The 6:00 - 9:00 p.m. meeting featured the annual SARA Title III Toxic Release Inventory report, coordinated by Rohm and Haas's Ralph Kennedy. Kennedy provided summaries to show how overall releases to the air, land, and water and off-site transfers fared. Most plants provided a handout listing the data for their SARA chemicals. Air emissions declined significantly again, but overall emissions increased due to additions to the SARA list. To put the releases in perspective, Houston Regional Monitoring (HRM) provided a summary of what their sampling and analysis finds in the area and at the Deer Park site near San Jacinto Elementary. The area attains all National Ambient Air Quality Standards except that for ozone. No volatile organic chemical but benzene is detected in Deer Park at levels exceeding the effects screening level set by TNRCC. Industry reductions in benzene emissions, documented in the SARA reports, seem to be bringing about reduced benzene levels in the air, as seen in HRM data. After Radian's Walt Crow made this report for HRM, Radian's Bob Sellicy described a pilot project at the Deer Park site that monitors continuously. A full report on the device called FTIR will be made when the pilot program ends next year. Propylene was the chemical of the month. Members continued refining plans for an evaluation of DPCAC and for greater outreach to students.

MONDAY, OCTOBER 28, 1996 The 69th meeting was held at Lubrizol and provided an update on industry support of education. Harold Smith of Lubrizol described the Texas Scholars program, which encourages 8th graders to select high school courses on or above level. Janet Hayes, DPISD Coordinator of Career and Technical Education, emphasized partnerships in her overview of programs that included the Career and Technical Education Advisory Council and its assessment process, the Career Pathways Project, the programs in which high school students can get community college credit, the hiring of career and technology teachers by local plants to help them keep their skills up to date, the Partners in Education program by which campuses are adopted by local plants, and the Deer Park Educational Foundation. Pete Orosco and Rick Rodriguez talked about San Jacinto College's retooled Process Technology program where students can get a Certificate of Technology or an Associate in Applied Science degree to prepare them for work in area plants. Dr. Eugene Chiappetta described the Texas Chemical Council's summer science teacher seminar offered at the University of Houston main campus. Members also agreed to an evaluation process that will begin with a survey mailed to each member.

MONDAY, NOVEMBER 25, 1996 The 70th DPCAC meeting was a "back to basics" review of the equipment seen when driving down Hwy. 225 and the work done by operators and environmental supervisors. Held at Shell, the meeting began with presentations and included a tour of the refinery and chemical plant. Making presentations or serving as tour guides were 8 Shell employees who joined members for dinner to provide additional time for conversation. The 8 were Stan Park, Richard Rodriguez, Don Netek, Clayton Hardy, Bobby Kent, Jessie Hardy, David Gonzales, and Odeh Khoury. Presentations and the tour introduced members to what they see from the road by identifying familiar shapes and explaining why the equipment is designed the way it is. Flaring was explained. Members also heard about a day in the life of an operator as well as how environmental supervisors serve as the link to the community. On December 9, members and their spouses will gather at Norma Hysler's for a holiday party.

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MONDAY, JANUARY 27, 1997 -- The 71st meeting, held at Ernie's on the Green at the Deer Park Golf Course, was slated to feature a self-evaluation of DPCAC until severe storms necessitated an early adjournment after updates were completed. Chris Kouba resigned. CAC members offered input to an East Harris County Manufacturers Association committee determining how to address community concerns about odors. Ron Davis of Geon replaced Dave Scholes on the subcommittee enhancing CAC relations with students. Community members selected four community members to be featured in the next round of CAC ads in the Deer Park Broadcaster and the Chamber of Commerce directory. Members changed the May meeting date from Memorial Day to Monday, May 19. One of the Rohm and Haas panels from Kentucky is expected to visit.

MONDAY, FEBRUARY 24, 1997 -- Meeting for the 72nd time and approaching its seventh anniversary, DPCAC delved into a self-evaluation. Mission and purposes were reviewed and reaffirmed with suggestions for revision to be dealt with after completing other parts of the evaluation. Highlights of the member survey were shared by the facilitator and discussed by members. Characteristics of successful advisory groups were noted, with discussion to resume next month on the CAC's successes as the evaluation is completed. Michelle Precourt became our newest student member. The meeting was held at the OxyChem Battleground plant from 6:00 - 9:00 p.m.

MONDAY, MARCH 24, 1997 -- An in-depth evaluation was completed with identification of the things that make DPCAC a success, the areas where improvement is needed, and the barriers to improvement. Members then adopted four goals for 1997-98: 1) Improve DPCAC communications with the community and advise plants how to improve their communications with the community relating to CAC-type topics; 2) Enhance understanding of small plants and interaction with them; 3) Increase DPCAC and plant involvement with students relating to CAC-type topics; 4) Broaden community input to DPCAC. Topics were brainstormed and prioritized and a program committee selected to develop a program plan for 1997-98. The meeting was held from 6:00 - 9:00 p.m. at the new Rohm and Haas Texas Lone Star plant, with a 5:15 p.m. plant tour and plant employees joining the CAC for dinner. (*Meeting #73*)

MONDAY, APRIL 28, 1997 -- A Program Plan for 1997-98 was adopted after review and revision of a proposal made by the Program Subcommittee. Focusing on the first of four goals adopted the previous month, members working in small groups reviewed and added strategies, then selected a few to develop. The Communications Subcommittee will develop plans for one or two activities based on this input. Members also identified possible changes to the mission and purposes. Sheridan will draft wording to reflect the group's wishes and send it to the Communications Subcommittee to review and revise and recommend to the full group in June or April. (*Meeting #74*)

MONDAY, MAY 19, 1997 The Louisville, Kentucky Community Advisory Council to Rohm and Haas met jointly with DPCAC to take part in a Deer Park meeting and participate in the discussion of transportation safety. Rohm and Haas Texas's materials manager Walt Stabell talked about the volumes they transport, the modes used, carrier selection, and ongoing inspections and training. Hazardous materials and emergency response team member David Ghormley focused on the 105 - J railroad tank car and its durability in two train wrecks in 1996. (*Meeting #75*)

MONDAY, JUNE 23, 1997 -- Departing Shell Deer Park at 5:30 p.m., the DPCAC traveled to Two Shell Plaza to the national control center for Shell Pipeline, where they toured the control room, power supply room battery

backup facility, and crisis management center. Shell Pipe Line's Bob Darwin provided a brief overview of operations and supplied maps and brochures. Tour guides included Mike Goertz, Walt Hays, Dennis Ramsey, and David Scruggs. The tour timeframe was compressed to allow time for members to share comments about the explosion that occurred June 22 at the Shell Chemical olefins plant that caused some property damage in the community and required residents north of the channel to shelter in place. Plant manager J. D. Johnson apologized for the incident and told members what is known about what happened and how they responded to the emergency and monitored for health impacts on the community. Dennis Winkler gathered input for the Local Emergency Planning Committee regarding several suggestions members made, including whether the city should have sounded the warning sirens even though residents did not have to shelter in place. *(Meeting #76)*

MONDAY, AUGUST 25, 1997 Meeting at Hampshire Chemical for their first tour of a small plant, DPCAC members found the site small enough to cover in an hour or so but learned from a presentation by Hampshire's Steve Outlaw that small plants also work to reduce waste and improve efficiency. Hampshire has a new glycine waste reduction project that will allow them to produce a million pounds a year more of product. Tour guides and other employees showed off the facility to groups of CAC members small enough to promote conversation with plant workers. Workers also joined the CAC for dinner. *(Meeting #77)*

MONDAY, SEPTEMBER 22, 1997 -- Gathering at Ernie's on the Green, members heard two reports given annually. Jim Daoust, Environment, Health, and Safety Manager at Hampshire Chemical presented an overview of the Toxic Release Inventories submitted by plants to the Environmental Protection Agency in accordance with Title III of the Superfund Amendments and Reauthorization Act of 1986. Emissions continue a downward trend. Walter Crow, Senior Project Manager at Radian International, presented Houston Regional Monitoring's annual report on the ambient air. DPCAC honored Boy Scout Tim Ganger for his Eagle Scout project, in which he is carrying shelter-in-place information to the city's apartment dwellers in (and is doing so in DPCAC's plastic bags). Copies of the DPCAC Orientation Manual were distributed, culminating more than a year of work to summarize all the group has covered to make it easier to orient new members and give speeches on the CAC. *(Meeting #78)*

MONDAY, OCTOBER 27, 1997 -- Input on how Deer Park plants should present their risk management plans to the public was provided by CAC members. Prior to that they heard an update on the EPA risk management program rule and the work of the citizens and industry members serving on the East Harris County Manufacturers Association (EHCMA) Risk Management Technical and Communications Committee. The input will be used by Lubrizol's David Reel, chair of the EHCMA Deer Park Outreach Area, to develop a proposal for the RMP communication events. The CAC expects to provide input on that proposal. *(Meeting #79)*

MONDAY, NOVEMBER 24, 1997 -- Eleven additional Deer Park High School students joined the CAC at the table to engage in dialogue with plant managers and other CAC members about student concerns and questions relating to the plants. Tricia Filippini, Daniel Gatzke, Erin Guidry, Nathaniel Huckabay, Tommy Hysler, Katie Maness, Ryan McCarroll, Pheba Philip, Richard Rains, Michael Smiley, and Melissa Trevino joined DPCAC student members Michelle Precourt and Tommy Rodriguez in asking questions nearly identical to those raised by the CAC over the years. The meeting at Rohm and Haas Texas was also attended by several Parent-Teacher Organization presidents. The CAC invited the PTO presidents to introduce them to the group in hopes they will invite the CAC to make presentations at PTO meetings, to let them know industry is a resource to them, and to make them aware they can send questions and concerns about industry to the CAC for discussion. *(Meeting #80)*

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MONDAY, JANUARY 26, 1998 -- Meeting at Shell, the DPCAC raised questions and concerns about truck and train transportation of hazardous materials. Responding to their comments were Shell employees Mike Boase, John Cantu, Vern Cornett, Glenn Fillion, Oliver LeDoux, Ron Stokes, and Chuck Timm as well as Fred Lang of the Port Terminal Railroad Authority. This group included loaders, people who check the train before it leaves the yard, specialists in hazardous materials regulation compliance, emergency responders, and the distribution coordinator. The level of interest was exceptionally high and the questions numerous. *(Meeting #81)*

MONDAY, FEBRUARY 23, 1998 -- A 5:30 p.m. tour of the Geon plant kicked off the second meeting in a year featuring one of the small plants in DPCAC. Members again were able to see the full facility on their walking tour, guided by plant workers from various backgrounds. After the group moved to the Monument Inn for the full meeting, Geon completed its presentation by sharing its safety and environmental records and its community relations and educational programs. Members Edwin Bealle and Margaret Moore decided not to renew their commitment for another year due to lack of time. They will be offered advisory member status. *(Meeting #82)*

MONDAY, MARCH 23, 1998 -- Continuing the focus on trucks and trains, members heard about enforcement of US Department of Transportation (DOT) regulations for trucks, including those carrying hazardous materials. Police officers Doug Nettles from Deer Park Police Department, Jeff Tippitt from LaPorte PD, and Loni Robinson from Pasadena PD talked about the unsafe conditions found when they stop trucks along Hwy. 225 and nearby truck routes. Lt. Mike Jackson of the Pasadena Police Department showed a video about Operation Respond, a national DOT partnership piloted in the Houston area and in which Pasadena, Houston, and Harris County law enforcement agencies take part. The program allows police officers computer access to major railroad and trucking firms' computerized information on contents of vehicles to promote quick response in an accident. Lee Haring of Lubrizol presented isobutylene as Chemical of the Month. The meeting was hosted by OxyChem at Ernie's on the Green. Delta Chemical Services attended their first meeting as a plant member of the CAC. *(Meeting #83)*

MONDAY, APRIL 27, 1998 -- *Risk = Hazard, + Outrage* is the theory of Dr. Peter Sandman and the theme of a videotape training program, of which the CAC viewed part. Outrage is his term for the 20 or so factors that influence how risky we decide an activity is. Members agreed with Sandman that factors such as voluntariness and familiarity affect how we perceive chemical risk and need to be considered when plants are preparing to communicate their risk management plans to the community next year. Extensive updates included a review of what plants do to ensure trucks leave their site safely, a followup to last month's presentation. Mike Walker, a Deer Park High School math teacher, was welcomed as a new community member of the group. The meeting was held at Rohm and Haas Texas. *(Meeting #84)*

MONDAY, MAY 18, 1998 -- Tom Grumbles of CONDEA-Vista, who chairs the CMA Product Stewardship Task Group, introduced members to the concept of product stewardship and the CMA Responsible Care Product Stewardship code of management practices. Mel Mouton of ITC reviewed the components of a material safety data sheet (MSDS) and discussed acrylonitrile as the Chemical of the Month. Members approved a presentation to be given by the new DPCAC Speakers Bureau. The meeting was held at the Monument Inn, hosted by Lubrizol. *(Meeting #85)*

MONDAY, JUNE 22, 1998 -- Following last month's introduction to product stewardship, members heard Shell, Lubrizol, and Paktank talk about product stewardship in action. Shell and Lubrizol discussed how they are implementing the CMA Responsible Care Product Stewardship Code by developing policies, analysis tools, and procedures. Paktank, which does not manufacture chemicals, talked about how the code affects them. Those who store chemicals in their tanks, for example, audit Paktank to be sure it handles chemicals properly. OxyChem presented caustic soda as Chemical of the Month. The meeting was held at Shell's South Cafeteria. *(Meeting #86)*

MONDAY, AUGUST 24, 1998 -- Meeting at the Monument Inn, DPCAC focused on waste by having each plant report on its source reduction and waste minimization accomplishments and plans, with each providing a brief report and a handout. Members agreed to a recommendation from the DPCAC Communications Subcommittee that the October 26 regular meeting be reformatted to become an opportunity for each CAC member and three non-spouse guests to visit one of the DPCAC plants volunteering to host a tour focused on risk management program scenarios and the related equipment. *(Meeting #87)*

MONDAY, SEPTEMBER 28, 1998 -- Hosted by OxyChem, the meeting at Ernie's on the Green featured two annual reports. Ted Brenneman of OxyChem presented the SARA Toxic Release Inventory overview of emissions from member plants. Tom Proffitt of Radian International provided the Houston Regional Monitoring (HRM) report on air quality. It focused on data from a pilot project conducted for the last three years at the Deer Park monitoring site set up by four CAC member plants to provide information requested by the CAC. The site has HRM's only continuous infrared monitoring system. Lubrizol and OxyChem provided examples of how data from this site have led to changes in performance. Terminal manager Allen Dawson of Hoyer Transportation briefed members on an August 28 release from his Bayport facility that sent 127 people to the hospital and caused citizens east of there to shelter in place. Lubrizol's Lee Haring presented propylene oxide as Chemical of the Month. *(Meeting #88)*

MONDAY, OCTOBER 26 AND SATURDAY, NOVEMBER 7, 1998 -- In lieu of the usual meeting, CAC members and their guests toured one of several plants hosting tours focused on their risk management plans. Both Shell plants, Rohm and Haas Texas, Lubrizol, and Hampshire showed community members the equipment from which could come the air releases that will be the subject of their worst case and alternative release scenarios. Briefing materials were sent before the meeting to acquaint members with the plant and the EPA risk management program rule. *(Meeting #89)*

MONDAY, NOVEMBER 23, 1998 -- Community members who toured plants with CAC members on October 26 and November 7 were invited to attend the November meeting to join in the discussion about the risk management plans. The CAC members and guests were asked what they saw or heard on the RMP-focused tours that comforted, confused, or concerned them. Plant representatives who were involved with the tours shared what they learned from them. The input will help guide future presentations on RMP. Ed Hawthorne, LEPC vice-chair, reviewed the LEPC's plans for their February 11, 1999 RMP event and their use of the information derived from the analysis of off-site consequences of a major release. The CAC agreed to be a partner with the LEPC by attending the January 25 rehearsal, serving as hosts/guides for February 11, and bringing three guests to that event. Chris Hext described how the Activity Center will be set up February 11. The meeting was hosted by Lubrizol and held at the Deer Park Activity Center. RohMax became a plant member. *(Meeting #90)*

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1999 ACTIVITIES

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MONDAY, JANUARY 25, 1999 -- The CAC met for an hour at the Courts and Theatre Building, then moved to the Activities Center for a dry-run of the risk management plan event sponsored by the Deer Park Local Emergency Planning Committee (LEPC). Members offered suggestions to LEPC officers afterward. During the CAC meeting, members were briefed on the RMP communication events in which they may participate. Those interested in doing so will assist at the Deer Park Outreach Area booth at the East Harris County Manufacturers Association event on February 4 and serve as greeters at the Deer Park event on February 11. To familiarize themselves with the handouts for the events, members heard Shell's Jim Beasley describe how to read a scenario map. Shell's Dan Burt updated members on an upcoming expansion project at the Shell refinery. Norma Hysler, Buddy Bishop, Dennis Jones, and Russell Elfstrom will represent the CAC at a Rohm and Haas meeting for all their CACs in Philadelphia this May. Karen McCarroll will serve as an alternate. *(Meeting #91)*

MONDAY, FEBRUARY 22, 1999 -- Meeting at the Monument Inn and hosted by the small plants, DPCAC had its first facility update from Delta Chemical Services, one of the newest plant members. The evening's main subject was discussion of the risk management plans (RMP) and RMP events. Members judged the Deer Park event a success, primarily for its engagement of attendees in dialogue about plant issues. They recommended a followup event of some sort. They also provided dozens of additional suggestions for the Local Emergency Planning Committee. Among these was a review of the scenario maps from Deer Park, LaPorte, and Bayport to identify those areas at greatest risk to be sure they are targeted for information and education about sheltering in place. The CAC will look at maps for these areas showing the distances for serious releases with the same intent. They also wish to review a list of risk reduction achievements. Membership changes were reviewed. All members renewed except Brian Barry. Barry resigned to have more time for his city council responsibilities; he will be an advisory member. Barbara Lewis will represent Sen. Mike Jackson when he is unable to attend; Jackson's former representative, Lamoin Scott, will become an advisory member. Newly-elected State Representative John Davis agreed to become a member. He will send Vicki Shroyer when he is unable to attend. Four members volunteered to serve as a Membership Subcommittee to bring a recommendation for additional members to the March meeting. The CAC reconfirmed its four goals and adopted strategies for 1999, based on the recommendations of the Communications Subcommittee. *(Meeting #92)*

MONDAY, MARCH 22, 1999 -- The GNI Group was welcomed as a plant member. Extensive updates filled most of the evening. Members confirmed plans for updating the orientation manual and named a planning committee to meet with former member Margaret Moore to discuss possible presentations to high school science classes like those done in 1998. The membership committee recommended 10 new members, and plans were made to confirm their acceptance and provide them with orientation materials. The GNI Group became the newest plant member. Lee Haring of Lubrizol presented aluminum chloride as chemical of the month. Ed Hawthorne of Shell Deer Park explained how plants plan for and handle hurricanes. Dennis Winkler provided the matrix of RMP chemicals and distances affected as well as a list of risk reduction achievements. Time did not permit discussion, so it will be deferred till May. *(Meeting #93)*

MONDAY, APRIL 26, 1999 -- In lieu of a full-group meeting, CAC members and their guests toured one of four plants. OxyChem and Geon, which will become one company in May, offered a tour showing the logic of linking all parts of the chlorine-PVC complex. Rohm and Haas Lone Star showed how a plant takes a toxic chemical and turns it into an environmentally friendly product. Delta Chemical Services, in business for less than a year, showcased their packaging and distribution facility. Safety-Kleen, formerly Laidlaw and Rollins, explained their commercial hazardous waste management practices. All ten people invited in March to become CAC members accepted and formally joined the roll in April. These are Mike Bailey, Cynthia Browning, Larry Cernosek, Gary Hager, Carol Harmon, Brenda Hellyer, Vernon Mensch, Rae Sanders, David Walker, and Angie Williams. *(Meeting #94)*

MONDAY, MAY 24, 1999 -- Everyone invited to join did so, with many in attendance for their first time as members. Small group discussion about RMP yielded suggestions about continuing education, risk reduction, and the importance of partnerships so that all do their part for safety. DPCAC evaluated its own role in the RMP project and found it both essential and valuable. Members agreed to approach the school district about making presentations to students in the 199-2000 school year and also about working with the LEPC to hold an emergency drill involving schools. The meeting was at Ernie's on the Green, hosted by Lubrizol. *(Meeting #95)*

MONDAY, JUNE 28, 1999 -- Charlie Gillard, Shell Oil Vice-President for Continuous Improvement and Rich Tarantino, Hampshire Chemical Operations Manager, explained how they are preparing for Y2K and the computer glitches that may occur when the millennium changes the date from the 1900s to 2000. They described how their plants have identified problems, remediated them, and tested for compliance, and what their contingency plans are for December 31. Stan Anderson presented Rohm and Haas Texas's risk management plans (RMPs) for two flammable chemicals, acetylene and propylene. Earl Wooten presented Oxy Vinyls RMP for chlorine. The meeting was held at Shell's South Conference Center. *(Meeting #96)*

MONDAY, AUGUST 23, 1999 -- Members suggested topics for meetings for the next year, and all participants prioritized the 25 issues and 3 organizational topics. Russell Elfstrom, Norma Hysler, Larry Cernosek, Barbara Lewis, Cyndi Harrison, and Shell Refining's Stacy Methvin volunteered for the Program Planning Subcommittee. The groundrules were revised to update language about size, substitutes, meeting locations, and plant members and to add language encouraging candid discussion and permitting community members to meet independently of plants. Morgan Enty replaced Sheila Donnelly as RohMax manager. David Walker updated members on the city's Y2K preparedness. Members received a document outline plant Y2K preparedness and contingency plans, LEPC Y2K activities, and notes from an EHCMA panel on Y2K. The meeting was held at the Monument Inn, hosted by ITC. *(Meeting #97)*

MONDAY, SEPTEMBER 27, 1999 -- John Holden of Shell presented the annual SARA Toxic Release Inventory report. Walt Crow of Radian International reported for Houston Regional Monitoring. Members agreed to invite Heath Juergens to become a CAC member. The Program Planning Committee's proposed 2000 Program was reviewed. After agreeing to several suggestions, members adopted the program for the next year or so. *(Meeting #98)*

MONDAY, OCTOBER 25, 1999 -- Making what is believed to be the first visits of CEOs to CACs in this area, Bill Bares of Lubrizol and Whit Sadler of Solvay accepted the invitation to address a joint meeting of the Deer Park and La Porte CACs. Each spoke of a CEO's commitment to the community, how Responsible Care relates to it, and what it means to a company to volunteer for a Responsible Care Management Systems Verification. A panel of CAC members who have served as public participants in MSVs spoke of their experiences and the value of the process. Attendees then listed ways both participating plants and members could share results of the MSV with the CAC and the community. To respond to anticipated concerns about an unusually high ozone level on October 7, Walt Crow of Radian reported on Houston Regional Monitoring's efforts working with TNRCC to determine what happened. Crow brought a computer animation showing the areas affected and wind trajectories showing the source of the high levels to be somewhere northeast of Deer Park. Members shared concerns about that event and suggested a system is needed for warning area residents when levels are high so they can try to stay indoors. *(Meeting #99)*

MONDAY, NOVEMBER 22, 1999 -- After celebrating their 100th meeting with a cake, the CAC covered a variety of topics. A handout provided data collected from plants to show how many of their employees live in Deer Park (16%). Plant representatives to the CAC then told where they lived and why they made their choices. Each plant also reported on whether they had any grandfathered air emission sources and their plans for them, if any. Dennis Winkler then reported on the status of suggestions the CAC made to the LEPC about broadening the reach of radio station AM 530, sounding the warning sirens more than once, and alerting residents to high ozone levels. Winkler received creative input to take to the LEPC Executive Committee, which is looking at these matters. Shell arranged for an update from Deer Park Rail Services, a commercial logistics firm building a facility near their site that will store Shell's rail cars. Shell also updated members on their permit application to expand ethylene manufacturing capacity by restarting an olefins unit with advanced process controls and Best Available Control Technology. *(Meeting #100)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2000 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 24, 2000 -- DPCAC traveled by bus to TranStar, a center for transportation and emergency management that houses the Harris County Office of Emergency Management among other agencies. Hosted by county emergency director, Jim White, the group learned about the facility and its equipment as well as the county's role in a chemical emergency. Also speaking were EOM Operations Director, Frank Gutierrez, Metro Police Officer Steve Long, and Harris County Pollution Control's Elizabeth Guynn. *(Meeting #101)*

MONDAY, FEBRUARY 28, 2000 -- Paktank hosted the meeting at the Monument Inn. With no response to the request for a speaker from the National Transportation Safety Board on rail safety, the CAC reviewed information gathered on rail traffic in the area, supplied by Union Pacific and Burlington Northern Santa Fe. CAC member Vernon Mensch obtained Department of Transportation hazardous materials placards and provided a handout to help members read the placards on trains and trucks. Shell's J. D. Johnson provided an overview on the state implementation plan (SIP) to achieve the ozone standard. Members then made comments and suggestions about the proposed SIP. *(Meeting #102)*

MONDAY, MARCH 27, 2000 -- EPA was invited to speak but was unable to provide a speaker to address the topic, which was their view of and goals relating to Houston Ship Channel industry. Responding to an earlier request to learn more about the issues and activities of other CACs, Sheridan provided an update on several. She also passed out educational materials on ozone and criteria pollutants prepared by the Air and Waste Management Association, and small groups talked about them and the state implementation plan. The group shared concerns about the explosion at Phillips that took place that day. *(Meeting #103)*

TUESDAY, APRIL 25, 2000 -- Combining a social event with a desire to learn more about the Houston Ship Channel, the CAC toured the channel on the Port of Houston's *Sam Houston*. Members brought a spouse or other guest. Two ships pilots, Bob Bratcher of Deer Park and Paul Brown, pointed out sites along the channel and provided some history. They also served as resources to answer members' questions. Lubrizol hosted the meeting. *(Meeting #104)*

MONDAY, MAY 22, 2000 -- To learn more about marine safety, DPCAC met at the US Coast Guard Base in Galena Park to tour Vessel Traffic Service. VTS staff described how they monitor ship and barge traffic of certain sizes from the time vessels enter the channel near Galveston. Al Meyer with the Army Corps of Engineers spoke on the progress of the project to widen and deepen the Houston Ship Channel. CAC member Larry Power will be on leave for an indefinite period. Jim Ross, Phillips Site Manager, gave an update on the March 27 explosion at their K-Resin plant and the investigations underway. DPCAC asked Ross to attend to respond to concerns in Deer Park. *(Meeting #105)*

MONDAY, JUNE 26, 2000 -- Meeting at the Shell South Conference Center, DPCAC looked at health issues. Epidemiologist Sharon Petronella, Ph.D. of the University of Texas Medical Branch at Galveston talked about her pilot study of the epidemiology of children's asthma in Galveston County,

including its relationship to air pollution. UTMB pediatrician Ed Brooks, M. D. talked whether air pollution causes asthma in children and about the UTMB children's asthma education program. On hand to ask questions of the speakers and help answer community questions was allergist Dr. Alnoor Malick of Deer Park. Judy Henry of the Texas Department of Health sent a report updating cancer data she had provided the group in 1995 as well as information on the TDH birth defects monitoring program and lead testing. Shell's Dennis Winkler announced he would be working at Shell headquarters. Terry Wilson attended as Delta Chemical Services' general manager. *(Meeting #106)*

MONDAY, AUGUST 28, 2000 -- Hosted by Rohm and Haas Lone Star and meeting at the Rohm and Haas "white building," DPCAC heard Michelle Kareis describe the truck traffic flow study commissioned by the Deer Park LEPC along with other area LEPCs. She described the amount and type of truck traffic along Hwy. 225 and what the LEPC has done with the recommendations resulting from the study. Sgt. Brian Hawthorne and Trooper Leon Yawn of the Texas Department of Public Safety described how trucks are regulated and inspected. Bill Scott, CEO of Trans-Global Solutions, told the CAC his company would be building a petroleum coke handling facility near Shell. Dean Eshelman replaced J. D. Johnson as site manager for the Shell Chemical plant. *(Meeting #107)*

MONDAY, SEPTEMBER 25, 2000 -- Hosted by Oxy Vinyls, the CAC met at the Battleground Golf Course meeting room to hear two annual reports. The 10th annual SARA Title III Toxic Release Inventory was coordinated and presented by Bill Carll of Lubrizol. The annual Houston Regional Monitoring report on air quality was presented by Walt Crow of URS (formerly Radian). Katey Girouard was welcomed as a new student member. *(Meeting #108)*

MONDAY, OCTOBER 23, 2000 -- Meeting at the Battleground Golf Course meeting room and hosted by Lubrizol, the CAC covered pipelines. George Johnson of Dow Pipeline provided an overview, with Dan Jones of Equilon Pipeline serving as a resource. Jones also brought numerous pipeline markers and pieces of line ruptured by digging. Jack Beckham of the City of Deer Park provided maps and lists of owners and the products in each line. Beckham also described the safeguards the city takes to ensure pipeline safety. Michael Wang of Deer Park High School became one of the student members. Several students also attended the meeting to see what it was like before they return in November to quiz plant managers. *(Meeting #109)*

MONDAY, NOVEMBER 27, 2000 -- Hosted by Rohm and Haas Texas, the CAC repeated a successful program of several years ago by inviting Deer Park High School students to quiz the plant managers (and the CAC). Topics varied from emissions to health effects to the availability of plant internships. Students participating were Michael Wang, a new CAC member; Matt Pizzo; Sabrina Odle; and Jessica Rhinehart. Odle and Rhinehart indicated interest in membership and have been added to the rolls. Discussion of several incidents at Shell produced recommendations for the LEPC for better coverage by radio station 530 AM and for the police department to notify motorists they stop that a chemical release is causing the rerouting of traffic. Difficulty accessing the CAER Line was shown to be a problem needing attention by EHCMA. Concern was also raised about use of the city sirens for a non-chemical release and lack of an all-clear when that occurred. Members will seek a representative from the city to serve on the CAC. Charter member Tillman McHenry resigned with regret but will serve as an advisory member. Former member Julie Cummins Blair returned as a member. She spoke to the students about the value the CAC provided her. Blair is now an industrial hygienist with GE. *(Meeting #110)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2001 ACTIVITIES

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MONDAY, JANUARY 22, 2001 -- Meeting at Shell's South Conference Center, the CAC received an update on a study of Patrick Bayou conducted by three plants that discharge into the bayou. Presented by Ted Brenneman of Oxy Vinyls, the study showed some exceedances at his plant, which are currently the subject of engineering studies. Brenneman will keep the CAC updated. Shell's Dean Eshelman said Shell Chemical sold its resins business and introduced members to the new plant manager, Steve Rockey. Rockey said Resolution Performance Products, the new firm, would like to be a CAC member, and members agreed this would be helpful. Several members volunteered to observe the Oxy Vinyls OSHA Voluntary Protection Program recertification audits. DPCAC's orientation manual was the subject of a case study in a new American Chemistry Council CAP Guide. Community and plant members brainstormed ideas for programs for the next year, selected priorities, and set up a Program Planning Committee to use this input to develop a program plan for 2001. *(Meeting #111)*

MONDAY, FEBRUARY 26, 2001 -- Hosted by RohMax, the CAC met at the Monument Inn. Dan Sabalesky, a market analyst with Shell, talked about what causes the changes in gasoline and other energy prices. This was to help the CAC understand supply and demand in the oil, gas, and chemical industries and impacts on both consumers and plants. The CAP adopted a program plan recommended by a committee comprised of Karen McCarroll, Sabrina Odle, Jessica Rhinehart, Michael Wang, and Safety-Kleen's Mike Connolly. Sheridan reported on membership renewals. Gary Hager, Larry Power, and Angie Williams resigned. Mike Bailey is on leave. A list of prospective members was reviewed but the group decided not to make any additions at this time. Plants provided timing of internal alarm tests. The group decided to ask La Porte and Pasadena plants for a list of their plant alarm tests also since they hear some of them in Deer Park. Rohm and Haas offered to sponsor two members to attend a May symposium on asthma cosponsored by a variety of groups and hosted by the Mickey Leland National Urban Air Toxics Research Center. Members agreed to meet with Dr. Edward Brooks of the University of Texas Medical Branch to provide input for a research grant he is applying for. *(Meeting #112)*

MONDAY, MARCH 26, 2001 -- For the first time in its 11-year history, DPCAC plants were represented at the meeting by an hourly worker rather than the plant manager. Members found the format a success and plan to repeat it periodically as a way to learn about plants from a worker's perspective. Wayne Turner of Hampshire Chemical reported on a Level III cyanide release that occurred since the last meeting. Larry Norwood talked about a Level II isobutylene release. Frank Stanford of Rohm and Haas Texas updated members on a Level III sulfur dioxide and SO₃ release. Stacy Methvin told members about a settlement the Deer Park Refinery, Equilon, and Motiva reached with EPA that will result in reduced emissions. She could not discuss it with the CAC until settlement was reached. Oma Duncan, a retired school nurse, was selected as a member. *(Meeting #113)*

MONDAY, APRIL 23, 2001 -- Six plants hosted tours for CAC members and their guests, with members deciding which to visit. The focus of all the tours was emissions and waste and the equipment and processes they come from in that plant. Hosting tours were Delta Chemical Services, Lubrizol, Oxy Vinyls, Resolution Performance Products, Safety-Kleen, and Shell Refinery. *(Meeting #114)*

MONDAY, MAY 21, 2001 -- Judy Henry, Co-Director of the Environmental Epidemiology and Toxicology Division of the Texas Department of Health, spoke about Deer Park data on cancer, birth defects, and lead poisoning. She discussed risk factors and explained when data become statistically significant. The meeting

date was changed due to the Memorial Day holiday on the 4th Monday. The meeting was hosted by Rohm and Haas Texas at their engineering building. Jessica Rhinehart, Oma Duncan, Heath Juergens, and Michael Wang will be featured in the next year of CAC ads. *(Meeting #115)*

MONDAY, JUNE 25, 2001 -- DPCAC hosted a public meeting on a topic of community interest in order to introduce more residents to the CAC and show they how the group addresses such issues. Ken Donnell, co-chair of the DPCAC Communications Committee, introduce the group to the CAC and its work. Flaring at industrial facilities was selected as the topic, and all DPCAC plants with flares participated in presentation and discussion. An overview was provided by Rich Bourns of Shell, Cliff Walk of Rohm and Haas Texas, and Bill Carll of Lubrizol. Questions were taken after each presentation and at the end of the overview. Attendees then talked in small groups with the GNI Group, Intercontinental Terminals, Lubrizol, Resolution Performance Products, Rohm and Haas Texas, Rohm and Haas Lone Star, Shell Refinery, Shell Chemical, and Vopak. A handout summarized the flares they have and what they are used for. The meeting was publicized by ads in the Deer Park Broadcaster, flyers distributed to homes along the streets closest to Hwy. 225, and flyers given out to organizations such as the Rotary, the schools, and neighborhood associations. There were few non-CAC members in attendance, but attendees all seemed to find the presentation and discussion helpful to their understanding of flares. The meeting was held at the Jimmy Burke Activity Center, with Shell hosting the event and making the arrangements. *(Meeting #116)*

MONDAY, AUGUST 27, 2001 -- DPCAC held its first extensive discussion on deepwells. The topic was spurred by questions raised when the GNI Group, which operates a deepwell, became part of the CAC and began making Toxic Release Inventory reports with other plants each September. Bill Reeves, GNI Vice-President for Regulatory Affairs provided details about the GNI well after Ben Knape of TNRCC described their permit program and Brian Graves of EPA discussed the no-migration petition process. Reeves brought a model to show well construction and geologic layers.. Multiple handouts were provided to acquaint members with well design, construction, operations, monitoring, and regulation. The CAC instituted a new agenda item called Company of the Month, intended to keep members informed about the CAC companies and what they do. Terry Wilson of Delta Chemical Services made the first such presentation and provided details in a handout. Phil Anastasio replaced Earl Wooten as Oxy Vinyls plant manager. Evaluation of the community meeting on flaring held in June showed those who attended found it well done, but the lack of public participation was disappointing considering the effort that went into notifying people of the opportunity. Karen McCarroll, Vernon Mensch, Jessica Rhinehart, and Michael Wang volunteered when Shell Refinery asked for a few members to meet with them to discuss the Supplemental Environmental Project (SEP) they will do as part of a settlement with EPA regarding interpretation of air emission regulations. *(Meeting #117)*

MONDAY, SEPTEMBER 24, 2001 -- Hosted by Oxy Vinyls at the Monument Inn, the CAC heard Cliff Walk of Rohm and Haas present the annual Toxic Release Inventory and emissions inventory reports on behalf of CAC plants. Tamara Muffat of URS presented the annual report on the results of the air sampling they conduct for Houston Regional Monitoring members. Muffat also covered data from the air monitor located in Deer Park and funded by four CAC plants. The meeting began with an opportunity to discuss terrorism and the September 11 attacks on New York and Washington. *(Meeting #118)*

TUESDAY, OCTOBER 24, 2001 -- Lubrizol hosted DPCAC members and their spouse or guest on a tour of the Houston Ship Channel on the Port of Houston's *Sam Houston*. The purposes were to see industry from the water side and to help members become better acquainted with each other. *(Meeting #119)*

MONDAY, NOVEMBER 26, 2001 -- Meeting at Rohm and Haas Texas, the CAC heard from three members who serve in the Texas Legislature. Senator Mike Jackson and Representatives Robert Talton and John Davis talked about recent environmental legislation. They focused on a bill providing incentives to help reduce NOx and about the sunset process and reauthorization of the Texas Natural Resource Conservation Commission.

Chuck Wolf from Media Consultants was invited by the DPCAC Communications Committee to discuss a possible website. The full group raised a number of questions but gave the committee the go-ahead to work toward establishment of a site if the issues are resolved. *(Meeting #120)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2002 ACTIVITIES

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MONDAY, JANUARY 28, 2002 -- DPCAC met at the Republic Grill at the City of Deer Park Battleground Golf Course. Channelview resident Pat Pinkerton was invited to speak as a local environmentalist. Pinkerton, a member of the Community Advisory Panel to Lyondell and Equistar, focused her remarks on emergency coordination and communication concerns held by that group and other North Channel residents. One of their concerns is how North Channel residents would know what to do if a chemical release south of the Channel headed their way. She challenged Deer Park plants to remember there is no invisible wall down the ship channel and asked to have several questions answered. Plants will consider the requests. DPCAC members agreed to the CAC Communications Subcommittee proposal to establish a DPCAC website as a one-year pilot project. They adopted additions to the DPCAC groundrules to cover website procedures that address issues raised when the idea was discussed at the November CAC meeting. On behalf of the CAC plants, plant manager Steve Rockey presented the plants' proposal to change the way plants provide financial and logistical support to the CAC. The group agreed to the plants' setting up a DPCAC account and to having the facilitator and secretary take over mailings. They also agreed that Karen McCarroll and Vernon Mensch serve with Rockey as a Treasury Committee to manage the funds in the account. The committee's first task will be developing policies for review and approval by the full group. The group will meet in a consistent meeting place (currently The Republic Grill). Host plants will arrange for meals. Shell Chemical and Shell Deer Park Refining were the featured companies, making presentations about what they do. *(Meeting #121)*

MONDAY, FEBRUARY 25, 2002 -- The CAC continued its discussion of the State Implementation Plan (SIP) submitted by the state to EPA to show how the area will achieve attainment of the ozone standard. The CAC heard what Deer Park plants are doing to reduce oxides of nitrogen, the focus of this SIP. Plants contributed to a summary presented on their behalf by Steve Hansen of Shell Chemical. Hansen provided basic information on NOx reduction requirements, then described the kind of changes local plants are making to achieve the 90% NOx reduction the SIP requires of industry. To show members how a plant determines what to do, Bill Carll described Lubrizol's NOx reduction efforts. The speakers also informed members about the scientific studies currently being reported to TNRCC, which could change some of the strategies for reducing ozone. Intercontinental Terminals was the featured company this month, making a presentation about its work as a storage terminal and logistics facility. *(Meeting #122)*

MONDAY, MARCH 25, 2002 -- Both community and plant members brainstormed ideas for programs for the next year after reviewing the CAC's mission and purposes, the topics suggested during the year but not yet scheduled, and the input from the 2001 planning session. Thirty ideas for meeting topics emerged. Using sticky dots, members indicated those they most want to address in the coming year. Gerald Elliott, Kay Urban Renkel, Russell Elfstrom, and Bob Brinly of Rohm and Haas Texas will serve as a Program Planning Committee to develop the input into a Program Plan that will guide the development of agendas.. Members also considered special projects for funding in the 2002 budget. They agreed the Orientation Manual should be updated. They also plan to sponsor a mixer for the Chamber of Commerce that will provide an opportunity for a presentation about the CAC. *(Meeting #123)*

MONDAY, APRIL 22, 2002 -- Channel Industries Mutual Aid officers Sam Pipkin and Howard Meek spoke to the CAC about the organization of area plants and governmental entities that provides cooperative assistance and expertise for both natural and man-made emergencies. Meek described the four zones into which CIMA is divided and emphasized the planning required of members and carried out by the organization to prepare for an emergency. CIMA has firefighting, rescue, hazardous material handling, and emergency medical capabilities and a pool of more than 200 piece of specialized equipment. A member who observed a CIMA drill several years ago recommended the experience to others. Rohm and Haas Lone Star was the featured company. Plant manager Ritchie Kirkpatrick brought a jar of the milky liquid they make that is used primarily in the manufacture of water-based paints and caulks. The meeting was held at the Republic Grill at the City of Deer Park Battleground Golf Course. *(Meeting #124)*

MONDAY, MAY 20, 2002 -- DPCAC met on the third Monday due to the Memorial Day holiday. At the Republic Grill, the group received resignations from Julie Cummins Blair, Ron Crabtree, and Rae Sanders due to lack of time to participate.

Jessica Rhinehart and Sabrina Odle are resigning because they have graduated and are leaving for college. Michael Wang also leaves for college but was granted a leave of absence because he wants to attend meetings when he is available. Security was the main discussion topic. Jim Hinton, Chair of the East Harris County Manufacturers Association Security Committee, discussed EHCMA's efforts to provide swift communication among plants and government agencies in the case of a credible threat. He reviewed typical plant security enhancements since September 11 and described the security guidelines issued in October by the American Chemistry Council. ACC is also developing a Responsible Care Code on Security. Plant security officers Marilyn Horton of Rohm and Haas Texas said a local plant security network has been reactivated. It also works to improve communication and share best practices. Art Reilly of Oxy Vinyls said that, after September 11, Channel Industries Mutual Aid held a joint with plant security personnel. *(Meeting #125)*

MONDAY, JUNE 24, 2002 -- DPCAC featured a panel discussion by local media on how they cover the petrochemical industry and incidents. Chuck Wolf, vice president of Media Consultants, organized and facilitated the panel. Panel members were Tony Freemantle, *Houston Chronicle*; Doug Schurtz, KTRK TV-13; Karen LaFleur, KHOU TV-11; and Tara Howard, KRTH AM 740 news radio. Panelists fielded many questions. RohMax made the "company of the month" presentation. In the absence of facilitator Diane Sheridan, Dave McKinney facilitated the meeting. *(Meeting #126)*

MONDAY, AUGUST 26, 2002 -- For the second year, DPCAC asked to have plants represented at the meeting by hourly workers rather than plant managers. Operators, maintenance workers, and environmental technicians attended to respond to CAC questions about security and safety. The group was diverse in age, gender, ethnic background, years of experience, and the type of plant but their views were quite similar. The CAC learned that awareness has increased since September 11 but workers are not afraid at work. Asked if they believe all accidents really are preventable, they acknowledged the challenge but agreed they are. Empowerment to stop work if conditions are unsafe topped the list of ways to embed safety values in workers. Frequent safety meetings and campaigns emphasizing staying safe for the sake of family were cited as important. Debate occurred on the value of cash awards for safety records. Union workers discussed the importance of the union – management partnership. The CAC also learned how new employees are screened, hired, and trained and how workers change from one job to another. *(Meeting #127)*

MONDAY, SEPTEMBER 23, 2002 -- DPCAC received the annual emissions report from Deer Park plants. It covered the Toxic Release Inventory (TRI) and the air emissions inventory of criteria pollutants. Overall TRI emissions and transfers off the plant site for further waste management or disposal totaled 20.5 million pounds. Ted Brenneman of Oxy Vinyls coordinated the emissions reports on behalf of Deer Park plants. Walt Crow of Houston Regional Monitoring (HRM) presented the annual air monitoring report. It covered HRM, City of Houston, and Texas Commission on Environmental Quality (TCEQ) monitors in the Houston – Galveston area. Ozone remains the only standard which the area does not attain, though the region is close to exceeding the standard for fine particulate matter. Crow also reported on Deer Park Site 16, operated by HRM and funded by four DPCAC plants to provide the local data members want. Few of the 39 compounds sampled ever exceed the TCEQ's Effects Screening Levels. Of the 16,038 samples observed in 2001, there were 41 exceedances. Of these, isoprene was found above the ESL 26 times. Shell Chemical is following up since it is a product they make. Mike Connolly reported that Safety-Kleen has been purchased by Clean Harbors. *(Meeting #128)*

MONDAY, OCTOBER 28, 2002 -- DPCAC discussed a cogeneration plant being built in Deer Park by Calpine. William Chenette, plant manager, talked about the company and the plant that will serve Shell Chemical, with excess power sent to the grid. Joe Gillespie from CenterPoint Energy was on hand to answer questions about transmission of the power and the large power lines built for the project. CAC members also received an update on Patrick Bayou. Louis Brzuzy of Shell described the Total Maximum Daily Load water quality program and the status of TMDL work by the companies and the city, which discharge into the bayou. Brzuzy also introduced members to the Superfund process because Patrick Bayou was named a Superfund site in September. The CAC adopted a budget for 2003 and approved groundrules revisions relating to finances. *(Meeting #129)*

MONDAY, NOVEMBER 18, 2002 -- To provide a social opportunity for community and plant members to get to know each other better in an educational setting, the CAC met at the San Jacinto Monument and Museum. Spouses or guests were included in the event. No business was conducted but plant updates were mailed after the meeting. *(Meeting #130)*

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MONDAY, JANUARY 27, 2003 -- An issue of perennial interest was the topic: Coordination in a Chemical Emergency. Jimmy Burke, chair of the Deer Park Local Emergency Planning Committee; Ron Crabtree, city manager; and Jack Beckham, city emergency services director, talked about the roles played by the LEPC and the city. Speakers were asked to use four kinds of incidents to describe coordination and chain of command. Burke talked about the planning role of the LEPC. Crabtree described activation of the city Emergency Operations Center for an incident in which the city is not in charge, such as a plant incident or one on a ship or barge. Beckham discussed the city's on-scene command structure and duties for an incident where the city coordinates the response. This would include a truck, train, or pipeline incident. Oxy Vinyls's Chris Burrell made the Company of the Month presentation. Mayor Wayne Riddle attended as a new member. State Rep. Wayne Smith replaces Rep. John Davis as a CAC member due to changes in Davis's district boundaries and Smith's election to the seat now covering most of Deer Park. *(Meeting #131)*

MONDAY, FEBRUARY 24, 2003 -- The CAC met at the Houston Area Contractors Safety Council on 13th St. They found the facilities as well as the training program greatly expanded since they first visited the council at its old offices nine years ago. Luis Aguilar, Executive Director, provided an overview about the council and its services. They offer 242 courses for both contractors and plant employees. Half are web-based, and the other half include computer-based training modules and hands-on demonstrations. Aguilar and his staff then took the group on a tour that provided those interested an opportunity to perform a computer-based training module. Several plant safety staff attended the meeting to learn more about HACSC. *(Meeting #132)*

MONDAY, MARCH 24, 2003 – Sustainable development was the main topic, with an overview provided by Jim Lester of the Houston Advanced Research Center and a corporate perspective by Joe Machado, Manager, Sustainable Development, for Shell Chemicals. They both defined sustainability and described the goals and steps that must be taken to achieve this end. The meeting at the Republic Grill also saw a change in industry membership with the decision to add community relations managers from all CAC plants with such staff at the local site. Dow and Lubrizol will join Shell in having their community relations manager serve as a CAC industry member. The issue arose with the retirement of Rohm and Haas community relations manager Jack Coe, who has served the CAC since he helped with its formation. *(Meeting #133)*

MONDAY, APRIL 28, 2003 -- The meeting was primarily spent planning for the next year or two. Issues to address at meetings were brainstormed and prioritized. The Program Planning Committee will develop the input into a proposed plan to guide agendas for the next two years. Members are Vernon Mensch, Buddy Bishop, Russell Elfstrom, Barbara Lewis, Cyndi Harrison, Terry Wilson and Ray Commander. DPCAC agreed not to schedule an evaluation retreat for the coming year. In addition to the written materials provided to new members, a one-hour session will be scheduled prior to a regular meeting where the mission will be clarified and new members will be able to ask questions of 5-6 experienced members. New members will also be assigned a mentor. To acquaint new members with plants, they will be encouraged to review the Plant Facts Directory. No Company of the Month presentations will be scheduled after the first round is completed later this summer. Chemical of the Month will not be reinstated but plants giving tours will be encouraged to tell members about the chemicals they handle and how they do so to prevent injury or exposure. Plant tours were deemed important. At least one meeting will be tour-a-plant night. On that night, 4-5 plants will offer a tour and members will select one to visit. Some will offer general tours and others will focus on a specific plant activity. Annual reports on air quality will be continued, with additional data to show trends since the CAC began emissions reports more than a decade ago. Members agreed that an annual social event for members

and spouses or guests is valuable in building relationships. They asked the Program Planning Committee to plan one. Clean Harbors made the Company of the Month presentation. *(Meeting #134)*

MONDAY, MAY 19, 2003 – DPCAC met at the DPISD Outdoor Learning Center to see the new facility and hear how it will contribute to environmental education. A presentation about the center was made by Julie Blair, a former CAC high school member, who serves as the center facilitator. Blair will be returning to membership in the CAC. Two additional new members were selected: Mike Davis and Jerry Owens. *(Meeting #135)*

MONDAY, JUNE 23, 2003 -- CAC members traveled to downtown Houston to visit the Shell Pipeline Control Center, the largest in the US. Shell's Greg Smith and Tony Franchina described both the technical aspects of operating 10,000 miles of pipelines and their aggressive community awareness and education programs on pipeline safety. *(Meeting #136)*

MONDAY, AUGUST 25, 2003 -- Meeting at the Republic Grill, the CAC heard a presentation on the health effects of ozone in an effort to understand why so much effort is being put into achieving the health-based ozone standard. The speaker was Jonathan Ward, Ph.D., Director of the Division of Environmental Toxicology in the Department of Preventive Medicine and Community Health at the University of Texas Medical Branch at Galveston. Ward shared toxicological and epidemiological research findings on the acute and chronic effects of exposure to ozone. He also reviewed what was learned about ozone formation during the Texas Air Quality Study 2000 and noted the challenges to attaining the standard. Larry Norwood presented information on Lubrizol in the final report of a multi-year Company of the Month series in which each company explained who they are what they make in Deer Park. Steve Rockey provided a treasury report. When the plant group met recently, they agreed there were funds for a nice social event. They asked that members link the event to some time for reflection about the advisory role of the CAC and how it might be enhanced. Sheridan suggested an agenda, and the CAC agreed to the proposal. The draft program plan prepared by the Program Planning Committee was reviewed and accepted. The Program Plan for 2003- 2005 will guide the development of agendas for the next two years, with a mid-course review to confirm or change the plan. Christine Miller, who is managing community relations for Rohm and Haas, became a plant member of the CAC. *(Meeting #137)*

MONDAY, SEPTEMBER 22, 2003 -- In lieu of its regular meeting, DPCAC held a "Tour-a-Plant Night." CAC members and their guests toured either Shell, Lubrizol, Rohm and Haas Texas, or Clean Harbors. *(Meeting #138)*

MONDAY, OCTOBER 27, 2003 -- Plants provided data for the annual reports on emissions, covering the Toxic Release Inventory and air emissions inventory. Susan Newman of Resolution Performance Products coordinated the data collection and made the presentation. DPCAC also received the annual report on air monitoring, presented by Walt Crow of Houston Regional Monitoring (HRM). Dave McKinney informed members about a new project of the East Harris County Manufacturers Association (EHCMA). The project is to improve communications during a chemical emergency. CAC members were asked to complete a preliminary survey on communication methods. A committee was formed to assist with plans for a holiday party on December 1. *(Meeting #139)*

MONDAY, DECEMBER 1, 2003 -- The November meeting was delayed due to the Thanksgiving holiday. A 4:00 – 6:00 p.m. work session was held at the Republic Grill. After discussing CAC accomplishments, community and plant members considered the advisory role of the CAC and how to improve. In small groups, participants reviewed plant updates and past presentations to determine questions that could have been asked about each to make plants aware of CAC expectations. At 6:30 p.m., community and plant members celebrated the CAC year with a holiday party at the Aquarium Restaurant at the Kemah Boardwalk. *(Meeting #140)*

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MONDAY, JANUARY 26, 2004 -- Melanie Williams, Senior Epidemiologist of the Texas Department of Health Texas Cancer Registry, presented her analysis of 8 types of cancer, comparing Deer Park to Texas statistics for cancer incidence and mortality. DPCAC requested the analysis for the third time in its 14-year history. Williams found no significant excess of cases diagnosed or deaths when the cases observed were compared to statewide statistics. Members noticed some elevation in pancreatic cancer but Williams said it was still within the expected range. Dave McKinney handed out a brief update on the Patrick Bayou Total Maximum Daily Load (TMDL) project and Superfund status. Steve Rockey gained approval for a Treasury Committee recommendation not to collect dues until needed. The responsibilities of the three DPCAC standing committees were reviewed and new members solicited. As of February, Treasury Committee members will be Steve Rockey, Gerald Elliott, and Sandy Mayne. The Editing Committee will be Norma Hysler, Buddy Bishop, Gerald Elliott, Jack Heintschel, Dave McKinney of Shell, and Chris Hext of Lubrizol. Christine Miller of Rohm and Haas will cochair the Communications Committee with Ken Donnell, who continues in that role. Miller will organize the meetings. Other members are Billie Mann, Don Dean, Buddy Bishop, Jerry Owens, Roy Roberts, Vernon Mensch, Barbara Lewis, and Kay Urban-Renkel. *(Meeting #141)*

DPCAC participated in a January 22 joint meeting of all 10 community advisory councils in Harris County. The Bay Area CAP hosted the first such gathering of CACs. Held at the Pasadena Convention Center, the event attracted about 100 participants, including 5 DPCAC community and 5 DPCAC plant members. Ken Donnell served as the DPCAC spokesperson. Each CAC had 5 minutes to share recent successes. DPCAC listed having hourly workers instead of plant managers represent their plant at a meeting, the meetings where high school students quiz the plant managers, the December 1 self-reflective workshop, adding 10 members but retaining originals, the standing Communications Committee, and the DPCAC website. DPCAC handed out a summary of these "things we are proud of" and our DPCAC fact sheet.

MONDAY, FEBRUARY 23, 2004 -- State Rep. Wayne Smith, whose district includes most of Deer Park, spoke about actions taken but h 78th Legislature with impacts on industry that also affect the community. Smith listed bills and the studies to be undertaken by several committees during the interim. Among those listed were bills and studies relating to permitting, compliance history, and public school finance. The CAC took part in a brief discussion and survey to provide input to the EHCMA Community Emergency Communications Committee. *(Meeting #142)*

MONDAY, MARCH 22, 2004 -- DPCAC invited a panel of experts to update them on changes in security since 9-11-01. Making brief presentations and responding to questions were Commander David Hawes, Chief, Port Operations, US Coast Guard Marine Safety Office Houston – Galveston; Wade Battles, Managing Director, Port of Houston Authority; Dave Smith, Chair, EHCMA Security Committee; and Dave LaVine, Dow Chemical Environmental Health and Safety. The FBI was invited but did not attend. Speakers covered improvements in programs, training, equipment, coordination, and communication but acknowledged that continuous improvement is still needed. *(Meeting #143)*

MONDAY, APRIL 26, 2004 -- After covering plant and other updates at the Republic Grill, the CAC journeyed to the US Coast Guard Vessel Traffic Service center in Galena Park. Mr. Dike, a 19-year civilian employee of VTS, gave a guided tour of the facility that manages traffic on the Houston Ship Channel. He described VTS's work and changes in security since 9-11-01. Karen McCarroll, Heath Juergens, and Texas Molecular's Jim Robbins volunteered to serve on a Membership Committee. *(Meeting #144)*

MONDAY, MAY 24, 2004 -- DPCAC toured the Calpine cogeneration facility near Shell. The CAC heard a presentation about the cogen plant in October 2003. Plant manager William Chenette at that time invited them to visit the facility after construction was complete. The plant is close to being fully operational, so members heard an overview about Calpine and the way the plant makes steam and electricity, then had a walking tour. Member Michelle Precourt resigned due to her move to Michigan to attend medical school. *(Meeting #145)*

MONDAY, JUNE 28, 2004 -- Marv Schlanger, CEO of Resolution Performance Products, talked about the challenges facing the petrochemical industry that affect its economic viability. Member Julie Blair resigned due to lack of time to attend meetings routinely. Reports were made by the Membership and Communications Committees. Dave McKinney facilitated in the absence of Diane Sheridan. The meeting was held at the Republic Grill. *(Meeting #146)*

MONDAY, AUGUST 23, 2004 -- Mike Bellinger, Production Vice-President, used recent examples from Shell Deer Park Refining to explain what major plant turnarounds accomplish, how they are planned, and the attention given to safety and environment during the process. The meeting was held at the Republic Grill. *(Meeting #147)*

MONDAY, SEPTEMBER 27, 2004 -- The CAC received the annual reports on emissions. Steve Hansen of Shell presented the Toxic Release Inventory, including a separate report on persistent bioaccumulative toxics (PBTs), and the TCEQ Air Emissions Inventory. Walt Crow of URS Corporation presented the annual Houston Regional Monitoring report on air quality in the region and in Deer Park. Crow also described the TCEQ–industry pilot project known as EMRS (Environmental Monitoring and Response System). Working in small groups, community and plant members discussed achievements and identified challenges. The major achievement was the continuing decline, especially in air emissions. The main challenge is to continue the decreases. The meeting was held at the Republic Grill. *(Meeting #148)*

MONDAY, OCTOBER 25, 2004 – Tom Stock, PhD, University of Texas School of Public Health, shared findings to date from analysis of research in which four CAC members took part. The project evaluated diffusive air samplers for determining variations of volatile organic compounds in the ambient air of urban areas with high Toxic Release Inventory and low TRI emissions. The evaluation of the organic vapor monitors was conducted in Deer Park, Aldine, and Clinton Park. It compared monitoring results from a population center to those at TCEQ air monitoring stations. In Deer Park, the TCEQ monitor is located close to the center of population, which makes it representative of what people breathe. Stock found no major concerns in Deer Park. He also updated members on two other research projects underway in the Houston area. One looks at the relationship of indoor, outdoor, and personal air to personal exposure. The other is an asthma study in Aldine. Texas Molecular told the CAC they have applied to partner with the US Army on a chemical neutralization and disposal project, and they are finalists. They provided a fact sheet and offered to share more information as the CAC wishes. Longtime active CAC member Dennis Jones resigned to move his chiropractic business to Belton. *(Meeting #149)*

MONDAY, NOVEMBER 29, 2004 -- The CAC's 150th meeting featured two Deer Park High School students sharing student impressions of industry and asking questions of a panel of plant managers. Seniors Clarissa Clement and Katie Tierling said most students know little about plants unless their parents work there. They have concerns about pollution and health effects and need to know more when they are asked to shelter in place. Both students had concerns about regulatory programs permitting plants to purchase emission credits and instead advocated pollution reduction measures. Plant managers Steve Oxley of Lubrizol, Dean Eshelman of Shell Chemical, and Mike Connolly of Clean Harbors addressed their questions. General discussion about emergency procedures in the school district followed to be told more about the incident when there is a call to

shelter in place. Texas Molecular's Jim Robbins and Manny Gonzalez updated members on a November release that generated numerous questions and suggestions for more prompt communication in the future. Kimmey Woods was selected as a member. Gerald Elliott resigned because he has moved to Winnsboro, Texas. An Emissions Report Committee was formed to consider how to improve the annual emissions report. Volunteers include Jack Heintschel, Lubrizol's Bill Carll, and Ralph Kennedy and Cliff Walk from Rohm and Haas (*Meeting #150*)

DEER PARK COMMUNITY ADVISORY COUNCIL

2005 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 24, 2005 -- Deer Park Community Advisory Council community and plant members and visitors shared their reactions to a series of articles on air toxics published in the January 16-20, 2005 editions of the *Houston Chronicle*. Comments also covered articles that preceded and followed the series. The articles succeeded in generating a lot of discussion. Overall, members found the articles an overwhelming amount of information that was unbalanced because it gave only brief attention to any industry programs that have reduced emissions over the years. Members have already been exposed to most of the information in the articles through the CAC. Several items were found helpful, and the articles generated a number of topics for future CAC discussion. The CAC adopted its 2005 budget. Steve Oxley agreed to serve another term on the Treasury Committee. Appointed to fill a vacancy, he has served only a few months. The annual tally of ozone exceedance days was provided (35 exceedances of the 1-hour standard and 45 of the 8-hour standard in 2004). *(Meeting #151)*

MONDAY, FEBRUARY 28, 2005 -- For the third time, DPCAC plants were represented by hourly workers rather than plant management. Plant representatives were asked to answer three questions sent to them ahead of time. The questions were about their company's ethics program, the relevance of the chemical industry Responsible Care program to their job, and their views on the recent *Houston Chronicle* series on air toxics. Additional discussion focused primarily on how security has changed since 9-11-01. Texas Molecular's Jim Robbins attended the start of the meeting to report on a fire that morning. *(Meeting #152)*

MONDAY, MARCH 28, 2005 -- DPCAC celebrated its 15th anniversary with a banquet at the Monument Inn. Former community and plant members were invited to join the current members, and several were able to do so. Facilitator Diane Sheridan shared some history of the group's formation and highlights from each of the 15 years. Bob Brinly of Rohm and Haas Texas, Chair of the East Harris County Manufacturers Association Deer Park Outreach Group, thanked members for their commitment and commented on the value he believes the CAC has. Members received a clock to commemorate the milestone and a copy of the historical review. *(Meeting #153)*

MONDAY, APRIL 25, 2005 -- After reviewing major meeting topics suggested but not yet scheduled and the topics other area CAPs are covering, community and plant members brainstormed additional ideas, then indicated their priorities for the coming year among the 37 topics listed. The Program Planning Committee will be Norma Hysler, Barbara Lewis, Jack Heintschel, Craig Elam of Clean Harbors and, depending on date, Bob Brinly of Rohm and Haas. Prior to working on its own agenda, members observed a moment of silence and then raised questions about the March 23 explosion at the BP Refinery in Texas City. CAC member Roy Roberts has been named as the CAC liaison to the Deer Park Local Emergency Planning Committee. Volunteers for an Emissions Report Committee include Craig Elam, Clean Harbors; Barbara Lewis; Christine Miller, Rohm and Haas; and Jack Heintschel. Ralph Kennedy and Cliff Walk of Rohm and Haas were volunteered previously. Bill Carll of Lubrizol will coordinate the September reports this year. *(Meeting #154)*

MONDAY, MAY 23, 2005 -- DPCAC met at the DPSISD Outdoor Learning Center. Center staff Cindy Hart and Julie Blair took members on a tour to see the progress the center has made since DPCAC's visit in 2003, when the center was new. Tim Hake, President and CEO of Shell Deer Park Refining Company, talked about foreign oil, addressing members' interest in shortages and contingency plans. He said developing a greater variety of energy sources longterm is a larger issue than coping with any short-term shortages. He stressed the importance of diversity in energy policy. We have established variety of energy suppliers in the United States. Worldwide, we are heavily dependent on oil and lack sufficient diversity in energy sources. CAC members selected Rudy Ramos as a member. *(Meeting #155)*

MONDAY, AUGUST 22, 2005 -- After a two-month summer break, DPCAC returned to the Republic Grill to learn more about the role Texas Molecular will play in the US Army's Chemical Neutralization and Disposal Project. Speakers included Bill Adams of the US Army Non-Stockpile Chemical Materiel Project and Bill Killilea of Shaw Environmental, contractor for the project to treat and dispose of wastewaters remaining after treatment in Pine Bluff, Arkansas of chemicals that could have been raw materials for chemical weapons but were not used. Casey Borowski, President of Texas Molecular,

opened the presentation. Texas Molecular Operations Manager, Frank Harris, also spoke. Frank Marine, VP Sales and Marketing, and Jim Robbins, Regulatory Affairs, served as resources. Also on hand were Karen Drewen, Public Affairs Officer, US Army Non-Stockpile Chemical Materiel Project, and Donna Creech, Public Outreach Specialist, Shaw Environmental, Inc. CAC members asked that Texas Molecular continue to provide updates to the CAC and reveal the route the trucks from Arkansas will traverse once Shaw Environmental has that information. *(Meeting #156)*

MONDAY, SEPTEMBER 22, 2005 – The regularly scheduled meeting was cancelled due to Hurricane Rita.

MONDAY, OCTOBER 24, 2005 -- For the first meeting after Hurricanes Katrina and Rita, DPCAC changed the agenda to allow time to discuss the storms. Plants were asked to comment on their experience and those of any sister plants in areas hit by the storms. City manager Ron Crabtree and emergency management coordinator Sam Pipkin described the city's experiences, and Floyd Burden spoke about the school district. David Wade, Industrial Liaison in the Harris County Office of Homeland Security and Emergency Management, commented on the county's experience. Everyone took part in discussions to identify Lessons Learned. The first Question of the Month asked if the community expected plants to leave rideout crews on site to ensure safety and security during a Category 5 storm. Steve Oxley presented the proposed 2006 budget on behalf of the DPCAC Treasury Committee. Members approved it as presented. *(Meeting #157)*

MONDAY, NOVEMBER 28, 2005 -- Bill Carll of Lubrizol, Coordinator of this year's emissions and air monitoring reports, presented Toxic Release Inventory and air emissions inventory data collected from member plants. Craig Elam of Clean Harbors elaborated on TRI persistent, bioaccumulative, toxics by discussing his company's lead and mercury releases. Walt Crow of Houston Regional Monitoring presented air monitoring data on ozone and air toxics from area monitors as well as the private Deer Park monitor. Crow provided additional information about benzene. Members were pleased that releases are declining overall over time, and that air releases and NOx emissions have both declined since last year's report. They were pleased that Rohm and Haas is investing in a denitrification project that will reduce releases of nitrates to water. Overall, members found industry to be working on reductions and were pleased that business seems to be good. On behalf of the Communications Committee, Ken Donnell asked if community and plant members would support an effort by the Speakers Bureau to make several presentations in 2006 to increase DPCAC visibility. Volunteers included Bobby Yates, Russell Elfstrom, Jack Heintschel, Larry Cernosek, Russ Kuykendall, Karen McCarroll, Ken Donnell and industry members Craig Elam of Clean Harbors, Mary Mujica of Shell Chemical, Jim Robbins of Texas Molecular, Steve Oxley of Lubrizol, and Dean Powers of Rohm and Haas Lone Star. The Communications Committee also suggested a joint strategy session when the next Membership Committee is formed. Sheridan suggested one be formed in early 2006 but members are not ready to take on the task. When there is a Membership Committee, a joint strategy session would be worthwhile. Floyd Burden will seek student members for the CAC. Wayne Turner announced that Hampshire Chemical, owned by Dow, has been sold to GEO Specialty Chemicals. GEO plant manager Sam Scalfano attended and said the company will be a CAC sponsor. Former CAC members Vernon Mensch and Michelle Precourt Debbink agreed to be interviewed by Kevin DeBell, a George Mason University doctoral candidate, who is writing his dissertation on the use of third party neutrals in development of Total Maximum Daily Loads. He asked the CAC members who served on the Patrick Bayou TMDL if they would be interested in being interviewed. The DPCAC Question of the Month was, "What is the public perception of the CAER Line and the EHCMA Odor Network and are they valuable to the community?" Members found that some know the CAER Line and use it regularly and some do not but call CAC members when an incident occurs. A member who polled his 14-15 year old students found those who had attended Deer Park elementary schools knew about the CAER Line and Wally Wise, but others did not. No one beyond CAC members knew about the Odor Network. Deer Park Emergency Management Coordinator Sam Pipkin said the city gets calls about odors sporadically and refers callers to the Odor Network. *(Meeting #158)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2006 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 23, 2006 -- Medical doctors Charles Allen and Brian Bradley, both with practices in the Pasadena-Deer Park area, accepted the CAC's invitation to share their views on whether Deer Park is a healthy place to live. Both doctors acknowledged that health is affected by the cumulative experiences of a lifetime but called prevention the key to good health. The Question of the Month was *When they grow up, would you want the children in your life to work in industry? What level of education do you think a plant job requires?* There were mixed responses to the first part of the question, but more yes than no answers. Responses to the second part of the question indicated some lack of understanding of the education levels required to be hired in most plants.

(Meeting #159)

MONDAY, FEBRUARY 27, 2006 -- DPCAC invited the US Department of Homeland Security to provide a federal perspective on security. Kerry Spaulding, Protective Service Advisor, talked about the agency's emphasis on industry and the services the advisors perform. Dave Smith of Shell, Chair of the EHCMA Security Committee, served as a resource. Norma Hysler was selected to serve a 3-year term on the Treasury Committee. The Question of the Month was "Is the community aware of any specific security regulations; e.g. C-TPAT, the Customs-Trade Partnership against Terrorism, and others geared at decreasing security risks? *What does the community expect of industry regarding security?*" Jerry Owens and Pat Cornor resigned. DPCAC named four high school students as members.

(Meeting #160)

MONDAY, MARCH 27, 2006 -- As part of a series of meetings on the global economy, DPCAC looked at the state of industry today by examining the results of a study of the chemical industry conducted for the Texas Chemical Council, with local data supplied by the Economic Alliance of the Houston Port Region. The alliance's executive director, Jan Lawler, discussed the findings and what the alliance learned about the economic impacts of area chemical industry. The Question of the Month was "How concerned are you about a widespread public emergency? What type, if any, concerns you most; e.g. chemical, a kind of bioterrorism, hurricane, etc." Christine Miller, Rohm and Haas public relations, facilitated in the absence of CAC facilitator Diane Sheridan. *(Meeting #161)*

MONDAY, APRIL 24, 2006 -- DPCAC conducted a program planning session and made plans for an end-of-year holiday party. Members confirmed plans not to meet in June or July. Questions for the August presentation on global competition were developed. Discussion of the question of the month (on gasoline prices) was extensive. Tim Hake, Shell Deer Park Refining Company President, made comments addressing some of the concerns. Rudy Ramos was granted a leave of absence. *(Meeting #162)*

MONDAY, MAY 22, 2006 -- CAC member and City of Deer Park Emergency Management Coordinator Sam Pipkin presented hurricane evacuation plans and indicated changes for 2006 developed because of the 2005 experiences. David Wade, Harris County Industrial Liaison, highlighted aspects that affect plants. The Question of the Month was about safety rates and how the chemical manufacturing and petroleum refining industries compare to other segments of private industry. *(Meeting #163)*

MONDAY, AUGUST 28, 2006 – Former Shell Chemical plant manager Dean Eshelman returned to the CAC to talk from his experience managing global joint ventures for Shell. Eshelman was asked to describe global competition and what it means for Deer Park industry. He was asked to focus on China, one of the places where Shell has a growing presence. He described the growth in China in the global economy and the facts Shell considers when selecting places to do business. Members enjoyed being able to ask him about cultural changes, especially those affecting the work force. Question of the Month was about the American Chemistry Council Essential₂ campaign. No one surveyed had heard of it, nor had any of the CAC members. When asked what consumer products in their daily life originate from chemistry, most named things like plastic bags. Members who went to the ACC website were surprised at the number of items. The Deer Park LEPC asked CAC members to take part in an October 27 drill. DPCAC members Mike Bailey and Michael Wang resigned. Wang, a former student member, graduated from Texas A&M and is teaching English in Japan. He wishes to receive mailings as a Former Member. The CAC adopted a Program Plan for 2006-2007. (Meeting #164)

MONDAY, SEPTEMBER 25, 2006 -- “The State of the Air” was the theme of this year’s reports on emissions and air monitoring. Tom Stang of Rohm and Haas Texas collected and presented the emissions inventory of criteria pollutants and the Toxics Release Inventory. DPCAC initiated a new approach to TRI this year, selecting one medium to present rather than all the data collected. Criteria pollutants declined 8% since 2004. TRI air releases went up three-tenths of one percent. Question of the Month was “*What kind of concerns, if any, do you have about the hazardous materials being transported through Deer Park via truck, rail, pipeline, or the Ship Channel? What kind of information would you like to have about hazardous materials transportation through Deer Park?*” Members were asked to complete the annual renewal of commitment forms. (Meeting #165)

MONDAY, OCTOBER 23, 2006 -- “The State of the Air” presentations continued with a case study of a single chemical. Benzene was selected due to longterm community member interest and its presence on TCEQ’s watch list. Tom Stang presented a “chemical of the month” presentation on its properties and hazards, then shared data from DPCAC plants with benzene emissions. Houston Regional Monitoring’s Walt Crow then presented trends. For the first time in a CAC presentation, Crow mapped monitors and concentrations from those monitors on Google maps for the area, focusing down to city streets. Stang listed efforts local plants are making to control and reduce their benzene emission. The Question of the Month was “Which household item do you value the most that contains products made in Texas refineries and petrochemical plants?” Few members had time to seek community responses but felt most could name something they found valuable, with contact lenses one of the first mentioned. Results of the annual request to renew commitment will be shared at the January meeting. (Meeting #166)

MONDAY, NOVEMBER 27, 2006 -- In lieu of a business meeting, DPCAC held one of its periodic holiday celebrations. A dinner for community and plant members and their spouses or guests was held at the Aquarium restaurant banquet room at the Kemah Boardwalk. The party was coordinated by CAC member Norma Hysler with the assistance of members Ken Donnell and Barbara Lewis. Plants and several community members donated door prizes. (Meeting #167)

DEER PARK COMMUNITY ADVISORY COUNCIL

2007 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 22, 2007 -- Charlie Jenkins of the Port of Houston Authority provided an update on the Bayport container port, which had just opened for shipments. Jenkins also addressed port security. Hassan Nikooie of the Texas Department of Transportation (TxDOT) described intersections for which funds have been approved and plans for road expansions for which funding is still needed. Also on hand as a TxDOT resource was Alex Pinyozy. The Question of the Month was about the October community wide emergency response drill. Most quizzed about it were aware of the drill but few community members knew what was learned from the experience. Andy Smith, ship manager at the San Jacinto Battleground State Historic Site, was added as a member. The Treasury Committee proposed a budget, which was accepted as proposed. Sandy Mayne was thanked for her service on the committee. Barbara Lewis volunteered to replace her. Members agreed that the committee's check writing duties may be assumed by Steve Oxley, the plant representative on the committee. Facilitator Diane Sheridan reported on membership renewals, and the CAC agreed to take time in February for Sheridan to describe the steps other CACs are taking to increase membership. *(Meeting #168)*

MONDAY, FEBRUARY 26, 2007 -- DPCAC changed its originally scheduled meeting topic in order to bring in speakers to address recent news stories about childhood cancer in Houston Ship Channel communities. Symanski, University of Texas School of Public Health, described a study that looked for associations between cancer and distance from the ship channel and cancer and proximity to monitors with higher annual averages of benzene and 1,3-butadiene. Rebecca Rentz, Texas Commission on Environmental Quality Houston Air Program Director, spoke about the two nearby areas where these chemicals are on the agency's Air Pollutant Watch List. Question of the Month asked which of 8 items would be regulated as hazardous waste if the waste were generated by industry rather than homeowners. *(Meeting #169)*

MONDAY, MARCH 26, 2007 -- DPCAC held one of its periodic meetings where plants are represented by hourly workers rather than the plant managers and community relations managers. Discussion began with two questions provided to the workers prior to the meeting: 1) "Tell us about a time when you put your safety training into action" and 2) "Does production get in the way of safety or environmental performance?" The Question of the Month was "What does homeland security mean to you?" *(Meeting #170)*

MONDAY, APRIL 30, 2007 -- In lieu of its regular meeting, DPCAC met jointly with other area CACs to hear the US Chemical Safety Board discuss key findings from investigations of the BP Texas City March 2005 explosion.

TUESDAY, MAY 29, 2007 -- Deer Park Emergency Management Coordinator Sam Pipkin and LEPC Executive Committee member Dave McKinney summarized the Fall 2006 full-scale emergency planning exercise and what was learned from it. CAC members Norma Hysler and Roy Roberts explained their roles in the simulation of a train derailment. Chris Hext of Lubrizol provided an

example of the checklist used by a plant to communicate outside the facility when there is a significant incident. His presentation covered new communications procedures developed collaboratively by East Harris County Manufacturers Association and responsible agencies. Time did not permit responses to the Question of the Month. The meeting date was changed due to Memorial Day (*Meeting #171*)

MONDAY, AUGUST 27, 2007 -- When the proposed speaker was not available, DPCAC allowed additional time for discussion of two Questions of the Month: 1) *How do you feel about the air quality where you live and work? Is enough being done to make it cleaner?* 2) *What do you do when you hear the outdoor emergency sirens?* The group considered the value of plant updates and discussion of them. Community and plant members agreed to several changes but also agreed the updates provide the kind of information members want and plant representatives usually do so clearly. The group also formed a Membership Committee to develop a plan for increasing membership. Membership Committee volunteers include Sam Pipkin, Norma Hysler, Kay Urban-Renkel, Barbara Lewis, Lubrizol's Chris Hext, and Rohm and Haas's Beth Dombrowa. Diane Sheridan will organize the committee. (*Meeting #172*)

MONDAY, SEPTEMBER 24, 2007 -- The Deer Park Community Advisory Council's 18th annual report on emissions was presented to the industry advisory group by Oxy Vinyls' Mark Woodall on behalf of the 16 Deer Park CAC plants. The Toxics Release Inventory (TRI) focus was on water. The group also heard about water and sediment programs for Patrick Bayou. Reports included the status of the Total Maximum Daily Load water quality program and the work underway due to designation of Patrick Bayou as a Superfund site. Highlights of TRI releases to the air and the air emissions inventory were also presented, as was an update on a voluntary effort by several CAC plants to reduce benzene emissions. Walt Crow of URS Corporation made Houston Regional Monitoring's 15th annual report to the CAC on air monitoring trends. Proposed changes to plant updates were adopted. Plants will report less frequently but in more depth. Updates will also be mailed the Friday before the meeting to allow members time to review them and formulate comments. Plans are underway for the first meeting of the DPCAC Membership and Visibility Committee. The group agreed to combine the two tasks since they are interrelated. The Treasury Committee sought input on the CAC budget. (*Meeting #173*)

MONDAY, OCTOBER 22, 2007 – University of Texas School of Public Health faculty members Elaine Symanski, PhD, an environmental health specialist, and Mary Ann Smith, PhD, a toxicologist and pharmacist, helped DPCAC understand the relationship between exposure, dose, and health effects. They described the dozens of factors that must be understood to know if being exposed to a contaminant could have an effect on human health. The DPCAC Membership and Visibility Committee met in mid-October and established goals for members and adopted strategies to fill gaps. (*Meeting #174*)

MONDAY, NOVEMBER 26, 2007 -- Mac McClendon, Harris County Office of Public Health Preparedness and Emergency Response Coordinator, described the county's pandemic influenza plan and encouraged others to prepare for the possibility of a bird flu epidemic. The facilitator reviewed groundrules changes proposed by the Membership and Visibility Committee, which will be considered for adoption in January. (*Meeting #175*)

DEER PARK COMMUNITY ADVISORY COUNCIL

2008 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 28, 2008 -- Deer Park Community Advisory Council launched the new year with "State of the Plant" reports highlighting achievements of member plants in 2007 and their goals for 2008. The year-end totals of ozone exceedance days in the region were presented. The group accepted the resignation of CAC community member Sandy Mayne with regret. Attendees took part in a program planning exercise to identify and prioritize meeting topics for the coming year. Serving on the Program Planning Committee will be Ken Donnell, Barbara Lewis, Larry Cernosek, and Lubrizol's Chris Hext. The 2008 budget was approved as presented by the Treasury Committee. *(Meeting #176)*

MONDAY, FEBRUARY 25, 2008 -- To clarify the interests and concerns that led members to choose the Bayport container port as the topic of most interest during program planning, DPCAC shared questions, topics they wanted covered by speakers or a tour, and the impacts the new port is having. Prior to discussion, plants commented on their use of the container port. None were using the new port, some use Barbours Cut, and some do not use the port at all. DPCAC changed groundrules to establish two categories of community membership: individuals and representatives of organizations and agencies. The Membership and Visibility Committee brought the recommendation to the group to help ensure that both kinds of community representatives are involved. Bobby Garcia was named a member of DPCAC. *(Meeting #177)*

MONDAY, APRIL 28, 2008 -- DPCAC toured the Port of Houston Bayport Container Port in two buses provided by the City of Deer Park. No ships were in port, and there was no activity, but the group could see the cranes and the container storage area, the maintenance areas, the emergency response equipment, and the Shoreacres community across the channel to the north. DPCAC members and plant representatives were joined by a number of prospective members. *(Meeting #178)*

MONDAY, JUNE 2, 2008 -- The May meeting was postponed to June 2 due to Memorial Day. Following up on the April DPCAC port tour, the Port of Houston Authority's Roger Guenther, Container Terminals Manager, and Ruben Arredondo, Marine Manager, addressed multiple topics. Patrick Gant, Texas Department of Transportation Engineer for Houston District Project Development, updated DPCAC on road improvement plans for Hwy. 146 and Hwy. 225. Ron Beeson, Lubrizol logistics manager, served as a resource for plant-related questions. John Stephens, Chair of the San Jacinto College Truck Driving Department, was a resource for questions about the college program and any use by container truck drivers. Sam Pipkin, City of Deer Park Emergency Management Coordinator, spoke as a member of the East Harris County Manufacturers Association (EHCMA) Community Emergency Communications Committee (CECC). He updated DPCAC on protocols in place to improve communications with the community in a significant industrial event. Harris County Industrial Liaison David Wade provided a short update and handout about hurricane evacuation routes and procedures. *(Meeting #179)*

MONDAY, AUGUST 25, 2008 -- DPCAC asked the Texas Cancer Registry (TCR) to update cancer incidence statistics comparing rates of the most common kinds of cancer in Deer Park to the statewide rates. Previous investigations by the division of the Texas Department of State Health Resources were performed in 1995, 2000, and 2004. Presenting the data was TCR's David Risser, PhD. Data showed no elevations of statistical concern. Because the rate for pancreatic cancer in males was close to being statistically significant, DPCAC would like TCR to continue to monitor the elevation to see if it persists. DPCAC members added 6 individuals and one organization to membership: Steve Horton, Michael Johnson, Michelle Lee, Jerry Mouton, Janet Self, Sam Sessions, and Bayshore Hospital (Sonya Anderson, representative). *(Meeting #180)*

MONDAY, SEPTEMBER 22, 2008 – Meeting cancelled due to Hurricane Ike.

MONDAY, OCTOBER 27, 2008 -- The meeting topic was changed to allow discussion of Hurricane Ike, covering preparation, experiences, aftermath, and lessons learned. Plants responded to common community questions posed by the facilitator, then reported on their hurricane experiences and status. CAC members and resource people from government and organizations reported for their groups. Lessons Learned were captured. Rex and Abbie DeShazo were selected as members. *(Meeting #181)*

MONDAY, DECEMBER 1, 2008 -- In lieu of a regular meeting, DPCAC held one of its periodic parties to give community and plant representatives time to get to know each other better. The event was held at Cullen's Restaurant and coordinated by DPCAC member Norma Hysler with the help of Karen McCarroll, Ken Donnell, and Barbara Lewis. *(Meeting #182)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2009 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 26, 2009 -- The annual emissions and air quality reports scheduled for last September, and delayed by Hurricane Ike, were presented. Walt Crow of Houston Regional Monitoring presented an update on air quality in the region as well as Deer Park, covering both ozone and air toxics and providing data specifically on benzene. Frank Marine of Texas Molecular presented air emissions data from the emissions inventories and Toxics Release Inventories of CAC plants. Each year, an additional segment of the TRI is presented. This year it was transfers off the plant site for further waste management or disposal. Vickey Roberts was selected as a CAC member. The CAC adopted a budget for 2009. A donation of books to the Deer Park Library will be made in honor of charter member Buddy Bishop, who passed away in December. *(Meeting #183)*

MONDAY, FEBRUARY 23, 2009 -- The CAC addressed workforce development by inviting several panelists and additional resource people to speak about the challenges facing the petrochemical industry in hiring qualified engineers, technicians, and crafts people. On hand were Bill Lindemann, Chancellor of San Jacinto College District; Bob Brinly, Economic Alliance Houston Port Region; Nathan Murray, Shell Deer Park and EHCMA workforce development group; Arnold Adair, DPISD Superintendent; and Veronica Reyes, Texas Workforce Solutions. Referencing an Economic Alliance survey showing an anticipated 48% turnover in operator positions in the next 5 years and only a third as many job candidates with the degrees needed for those jobs, the speakers explained how they are working in partnership to interest students in the education and training needed for industry jobs of all types. *(Meeting #184)*

MONDAY, MARCH 23, 2009 -- Two programs by which the Texas Commission on Environmental Quality (TCEQ) protects communities from unsafe levels of chemical exposure were described to the Deer Park Community Advisory Council by Michael Honeycutt, Manager of the state agency's toxicology section. Honeycutt was accompanied by 4 staff to provide them with a training opportunity. Lisa Stephens and Bobby Pennington were named members of DPCAC. Chris Bozman replaced Dave McKinney, who has served many years as the Shell community relations representative. *(Meeting #185)*

MONDAY, APRIL 27, 2009 -- Members gathered at the Republic Grill with plans to bus downtown to Two Shell Plaza for an overview of pipelines and a tour of the Shell Pipeline central control room. Severe weather led to determination to cancel the meeting before leaving Deer Park. *(Meeting #186)*

MONDAY, JUNE 1, 2009 -- The May meeting was delayed due to Memorial Day. To understand the US Environmental Protection Agency (EPA) plan to monitor air at San Jacinto Elementary School and Deer Park Junior High School, DPCAC invited Ruben Casso to speak in early June. Casso, the Air Toxics Coordinator for EPA Region 6, is coordinating the initiative in the multi-state region of which Texas is part. Linda Vasse of TCEQ served as a resource; the state agency will install and operate the monitor. *(Meeting #187)*

MONDAY, AUGUST 24, 2009 -- Dr. Angela Harris, Senior Toxicologist with the Center for Toxicology and Environmental Health, talked about indoor air: what pollutes indoor air, the relationship between indoor and outdoor air, and how to learn about the quality of air in home, school, etc. Tommy Ginn was selected as a new member of DPCAC. *(Meeting #188)*

MONDAY, SEPTEMBER 28, 2009 -- The annual report on emissions was presented by Steve Hansen of Shell Deer Park, based on data submitted by all DPCAC plants subject to reporting the air emissions inventory to TCEQ and/or the Toxics Release Inventory to EPA. Benzene data were again reported. For the first year, emissions of 1, 3-butadiene were also reported. Hansen gave an update on TCEQ's Air Pollutant Watch List for benzene for this area, as measured by the Lynchburg Ferry monitor. TCEQ is removing the area from the APWL due to reductions. Hansen provided the status of the EPA School Air Toxics Monitoring Program and a summary of the recently released EPA National Air Toxics Assessment (2002 data). He also gave a status report on replacement of the FTIR air monitor supported by 5 DPCAC plants. Matt Blazek and Robert Lee were named members. *(Meeting #189)*

MONDAY, OCTOBER 26, 2009 -- The new Houston Ship Channel Security District was described by Houston Ship Channel Security Council Chair, Pat Bellamy. The district is a public-private partnership to improve security and safety for industrial facilities, employees, and communities surrounding the Houston Ship Channel. Small group discussion captured advice for the district's new board of directors. Brett Woltjen, plant manager of the Shell Refinery, explained the Transportation Worker Identification Credential (TWIC) cards required of many plant workers and contractors by the Department of Homeland Security since last spring. *(Meeting #190)*

MONDAY, NOVEMBER 30, 2009 -- DPCAC members and guests gathered at the Republic Grill to be bused to downtown Houston to Shell Two. Jill Derise of the Shell Pipeline Control Center gave "Pipeline 101" presentation covering design, construction, maintenance, and operations. Control center personnel then took members in small groups to one of the control rooms, where they visited with a controller and viewed the control equipment and maps. Representatives of plants submitting written facility updates joined community members on the bus to be available to answer questions about their updates. The city provided the bus and driver. *(Meeting #191)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2010 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 25, 2010 -- The meeting opened with a presentation from American Acryl, a Seashore CAP member, regarding a December 9, 2009 explosion and fire of interest to community and plant members. Joe Goins, Plant Manager, made the presentation. Comments were added by Kelli by Kelli Gregory, Human Resources, who handled the communications with the community. The main topic was the annual State of the Plants report, covering accomplishments from 2009 and goals for 2010. Steve Hansen of Shell Deer Park gave a short update on results of the EPA School Air Monitoring Program and showed members the data obtained from the EPA website. Changes were made in the Treasury Committee. Morgan Enty of Evonik will replace Steve Oxley of Lubrizol, who is no longer serving as a DPCAC plant member. His term will end in 2011. Barbara Lewis completed her term and will be succeeded by Bobby Garcia. His term will end in 2012. The 2010 budget for DPCAC was proposed by Chris Hext of Lubrizol and approved as presented. After conducting a Program Planning brainstorming and prioritization exercise, four members volunteered to serve on the Program Planning Committee that will draft a plan based on the input. The four are Jack Heintschel, Steve Horton, Barbara Lewis and Hexion's Dave Phillips. Heintschel reported on his attendance at the November Haden Road Community Advisory Panel meeting, where he shared his views on CAC membership with representatives of similar groups in east Harris County. The meeting was hosted by Dow Deer Park. Written facility updates were submitted by Evonik and Vopak. *(Meeting #192)*

MONDAY, FEBRUARY 22, 2010 -- Walt Crow of Houston Regional Monitoring made his annual report. He showed that the ozone standard was attained for the first time in 2009 at the regulatory air monitors. He showed trends in reductions of nitrogen oxides (NOx), highly reactive volatile organic compounds (HRVOCs), and four compounds that are indicators of hazardous air pollutants, including benzene. He reported that benzene reductions have led the TCEQ to remove it from the Air Pollutant Watch List for the Lynchburg Ferry area. Crow also gave a status report on the EPA School Air Toxics Monitoring Program results to date for the monitor at San Jacinto Elementary School. Steve Hansen of Shell Deer Park showed data shared with EPA regarding several peaks in 1,3-butadiene emissions on certain days. The spikes were not typical nor above the short-term screening level, but they stood out. Members offered input for Air Products, a Pasadena CAC plant, regarding communications of a Feb. 16 incident. The meeting was hosted by Evonik RohMax USA. Written facility updates were provided by Shell Deer Park and Clean Harbors. *(Meeting #193)*

MONDAY, MARCH 22, 2010 – DPCAC celebrated its 20th anniversary with a dinner at the Aquarium 3rd Floor Restaurant at the Kemah Boardwalk. CAC community and plant members, charter members, those who resigned in the last couple years, and a few other guests were invited to the banquet. Charter members who are still active members were recognized: Ken Donnell, Russell Elfstrom, Norma Hysler, Kay Urban-Renkel, and the Office of Mike Jackson. Morgan Enty of Evonik, the longest serving plant member, thanked the group on behalf of industry. City council member Bill Patterson made remarks on behalf of Mayor Wayne Riddle. *(Meeting #194)*

MONDAY, APRIL 26, 2010 -- DPCAC enjoyed a photographic tour of the Houston Ship Channel when ship's pilot Lou Vest shared hundreds of dramatic photos of ships and marine personnel, the industrial landscapes they pass, and the weather they enjoy and endure. Especially popular was Vest's minutes-long video tour of the entire length of the channel, from city docks in Houston down to Bolivar Roads where the Houston Ship Channel meets the Gulf of Mexico. Vest also described a pilot's work. A status report on the newly formed Houston Ship Channel Security District was provided by charter board members Lawrence Waldron of Vopak Terminals and Harry Engelhardt of Dow Chemical after background was provided by Lubrizol's Chris Hext, who worked on formation of the district. City of Deer Park Emergency Management Coordinator Sam Pipkin and Harris County Industrial Liaison David Wade reviewed hurricane plans for 2010. *(Meeting #195)*

TUESDAY, JUNE 1, 2010 -- The regular May meeting was postponed to allow DPCAC to take the Port of Houston *Sam Houston* boat tour of the Houston Ship Channel. Members were invited to bring guests. Two resources were available to answer questions and point out security installations along the ship channel: Gail Miller, Harris Co. Pct. 2 Commission Garcia's office, and Stephen Depew, US Coast Guard Sector Houston-Galveston. Shell Deer Park was the host plant. *(Meeting #196)*

MONDAY, AUGUST 23, 2010 -- DPCAC met at the Republic Grills for a review of stormwater management programs. DPCAC plant representative Paul Green described typical industrial stormwater management regulations. Julie Villeneuve, Storm Water and Water Resource Specialist with the City of Deer Park, described the city's new program. Responding to a suggestion made during Program Planning, attendees worked in small groups to share questions, suggestions, and concerns about city development near industrial facilities. Input will be provided to the city. To fulfill a request for information on household hazardous waste management, the facilitator described what is available on Harris County and other websites. *(Meeting #197)*

MONDAY, SEPTEMBER 27, 2010 – DPCAC's annual report on emissions was compiled and presented by Scott Greene of Lubrizol. Data came from the annual air emissions inventory that plants submit to TCEQ and the annual Toxics Release Inventory (TRI) that most must submit to EPA. In addition to covering air annually, the TRI report includes one extra section each year. This year's addition was TRI releases to water. The annual report on air quality trends was made by Walt Crow of Houston Regional Monitoring. CAC member Janet Self resigned. *(Meeting #198)*

MONDAY, OCTOBER 25, 2010 – DPCAC traveled by bus to Houston TranStar to learn more about the capabilities of the transportation and emergency response center for the greater Houston area. Harris County Industrial Liaison David Wade, a Deer Park resident, introduced DPCAC to TranStar's capabilities, assisted by Assistant Chief Bob Royall, Chief of Emergency Operations in the Harris County Fire Marshall's Office. Additional resources included personnel who would staff the Harris County Emergency Operations Center (EOC) during emergencies. As requested, they described what would happen at TranStar if there were a major oil spill in the Houston Ship Channel. *(Meeting #199)*

MONDAY, NOVEMBER 29, 2010 -- Galveston Bay water issues were the subject of presentations by Steven Johnston, Monitoring & Research and Water & Sediment Quality Coordinator for the Galveston Bay Estuary Program (GBEP), and Scott Jones, Environmental Policy and Outreach Specialist with the Galveston Bay Foundation (GBF). Both explained the economic value of Galveston Bay

before describing the challenges that affect its health and productivity. Jones urged members to contact TCEQ with support for stronger standards for environmental flows. DPCAC celebrated its 200th meeting with a cake. (*Meeting #200*)

DEER PARK COMMUNITY ADVISORY COUNCIL

2011 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 24, 2011 -- Lorraine Gershman, P. E., the Directory of Regulatory/Technical Affairs for the American Chemistry Council in Washington DC, provided an industry perspective on greenhouse gas issues, including the economic and environmental costs and benefits of reducing them. A last minute glitch in meeting location resulted in the meeting being moved to the host plant, ITC. *(Meeting #201)*

MONDAY, FEBRUARY 28, 2011 -- Jennifer Powis, Senior Regional Representative for the Sierra Club in Texas, provided an environmental group perspective on greenhouse gas issues, including the economic and environmental costs and benefits of reducing them. She focused on coal because electricity generation is the primary source of greenhouse gases, and coal is the fuel used by 81% of electricity generation plants. Resignations were received from long time members Karen McCarroll, Billie Mann, Kay Urban-Renkel as well as Michelle and Robert Lee. A new plant directory provides a brief description of what DPCAC plants make and do. *(Meeting #202)*

MONDAY, MARCH 28, 2011 -- Members and several students from Deer Park High School and University of Houston – Clear Lake toured the Shell Deer Park facility. They traveled by bus throughout most of the refinery and chemical plant, with refinery manager Brett Woltjen as tour guide. The tour included a stop at the relatively new Refinery Operations Control Center. In the meeting room, Woltjen provided an overview before the tour began. Responding to DPCAC's request to see some smart technology, Barb Bessettehenderson described the infrared (IR) camera and its use in detecting emissions. Emergency Services Supervisor Angie Stack, with the assistance of Larry Smith, described emergency response protocols and systems for communicating incidents to the city and the community. *(Meeting #203)*

MONDAY, APRIL 25, 2011 -- To understand student views on the environment, Deer Park Community Advisory Council (DPCAC) conversed with two Deer Park High School students and two University of Houston – Clear Lake environmental management master's degree candidates. Students included Joey Brusco and Brianna Smelley of Deer Park High School and Srinivasan Lakshmi and Diana Cabanes-Prieto of UH-CL. Jim Griffin, EHCMA chair, told members the industry organization has reached out to regional environmental organization staff to begin a dialogue in addition to that with community-based CACs. The 2011 Budget was presented by Treasury Committee member Morgan Evonik and approved by members. *(Meeting #204)*

MONDAY, MAY 23, 2011 -- The status of the "Ike Dike" and other hurricane surge suppression initiatives was shared with the Deer Park Community Advisory Council (DPCAC) in late May by Dan Seale of the Bay Area Houston Economic Partnership (BAHEP) and Scott Jones of the Galveston Bay Foundation (GBF). Sam Pipkin, City of Deer Park Emergency Services, reported on upgrading the AM 530 radio station to expand coverage as part of a new tri-cities system with La Porte and Pasadena. Roy Roberts and Momentive's Dave Phillips were appointed to the Treasury Committee. Roy Roberts was appointed to replace Morgan Enty as the banking account signatory and the member who will

keep the books, write the checks, and handle the banking. DPCAC confirmed that Norma Hysler and Bobby Garcia remain members of the Treasury Committee. Hysler remains the alternate signatory on the banking account. Roberts, Phillips, Hysler, and Garcia constitute the DPCAC officers for banking purposes. Risa Parker and Richard Arocho were selected as members of DPCAC. *(Meeting #205)*

MONDAY, AUGUST 22, 2011 – Two officers from the commercial vehicle enforcement units of nearby police departments gave updates on their truck safety inspection program. Speakers were Robert Guerra of Pasadena Police Department and Dan Hoffman of La Porte Police Department. City manager Jay Stokes said Deer Park is in the process of reactivating its unit. Steve Hansen, Houston Regional Monitoring's Monitoring and Data Analysis Issue Manager, updated members on the EPA School Air Toxics Monitoring project and the benzene and 1,3-butadiene results from the new monitoring equipment at HRM Site 16, which has been operating since May 2010. As members arrived, they took a pretest to provide facts about their usage of the CAER Line. Later, they offered input on possible improvements to the CAER Line. Ruth Boyd, Megan Solliday, and Charles Thomas were selected as DPCAC members. *(Meeting #206)*

MONDAY, SEPTEMBER 26, 2011 – The annual report on emissions was coordinated and presented by Tracy Taylor of Dow. It covered the air emissions inventory and Toxics Release Inventory releases to air. Walt Crow of Houston Regional Monitoring made the annual report on air quality trends. It covered regional ozone and air toxics trends as well as data from the Deer Park monitor, which is now HRM Site 16. Benzene and 1,3-butadiene were highlighted in both the emissions and the air quality reports. *(Meeting #207)*

MONDAY, OCTOBER 24, 2011 – Momentive Specialty Chemical's Gary Greivenkamp, Senior Process Engineer at the Deer Park plant, presented a Chemistry 101 lesson on Bisphenol-Acetone (BPA) and reviewed the issues that generate public attention periodically. DPCAC member Sam Pipkin, City of Deer Park Emergency Services Director, updated DPCAC on the city's pipeline mapping project. DPCAC member Jack Heintschel presented highlights from an all-day seminar on hurricane surge suppression and coastal protection, which he attended in September. Robert Segelquist was moved from student to individual membership. Jeffrey Parks was named as Steve Horton's replacement as the San Jacinto College representative. The facilitator also noted that Valvoline was now a DPCAC plant member, with Tony Ashy as the plant representative. *(Meeting #208)*

MONDAY, NOVEMBER 28, 2011 -- Steve Hansen of Shell, representing East Harris County Air Partners, shared results of a TCEQ study of flaring that found certain operating conditions on certain types of flares did not produce the expected destruction efficiency. TCEQ's David Brymer, Director of the Air Quality Division, served as a resource. The findings will lead to changes in the way plants operate flares and their appearance to communities. Members adopted changes to the Treasury Groundrules. Ernest Weedon was selected as a member. *(Meeting #209)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2012 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 23, 2012 – DPCAC plants gave their annual “State of the Plant” reports, highlighting safety, environmental, and business achievements in 2011 and goals and plans for 2012. Tammy Little, Shell Deer Park refinery production manager, talked about a business transformation at Shell Chemical that included a change in feedstock from heavier, liquid-based hydrocarbons to lighter feedstocks and resulted in cost improvements, reduced environmental incidents, and lower injury rates. The meeting was co-facilitated by community member Bobby Garcia and Lubrizol plant manager Tony Shick when Diane Sheridan was unable attend due to a family emergency. Tyler McGowan was added as a Student Member. Shell Deer Park was the host plant. *(Meeting #210)*

MONDAY, FEBRUARY 27, 2012 – In response to a January question about safety terminology, the facilitator provided some basic information. Prior to brainstorming program topics for the coming 12 months, attendees talked about what is on their minds and those of family, friends, coworkers, etc. relating to Deer Park plants. Topics were listed as groups reported back. The group considered these. DPCAC history, and the topics other CACs are addressing before suggesting topics. Individuals used sticky dots to give points to the topics they most want to cover in the coming year. Ariel Pena was added as a member. Members decided they would like to have a DPCAC party during 2012. Roy Roberts presented the proposed budget on behalf of the Treasury Committee. It was adopted by members as proposed. *(Meeting #211)*

MONDAY, MARCH 26, 2012 -- Seeking an update on Houston Ship Channel security, DPCAC heard from Shell’s Gary Scheibe, a member of the board of directors of the Houston Ship Channel Security District (HSCSD), who described the district’s work and accomplishments to date. Lt. Wade Conner of the Deer Park Police Department then explained some of the anti-terrorism work of the City of Deer Park. After considering the resources needed and the ability to attract members via participation, DPCAC decided not to take part in the annual Salute to Education and Salute to Industry. Members adopted a Program Plan for 2012-2013, which includes a social event for members and guests in September. *(Meeting #212)*

MONDAY, APRIL 23, 2012 -- Philip Bedient, PhD, director of the Severe Storm Prediction, Education, and Evacuation from Disasters (SSPEED) Center at Rice University, described four options the center has proposed for reducing the impact of hurricane surge and inland flooding. He also showed computer modeling developed by the center allowing researcher to assess the effect of various proposals on storms of different intensities and landfalls. *(Meeting #213)*

MONDAY, JUNE 4, 2012 -- A comprehensive introduction to water planning for the state’s Region H was presented by Ron Neighbors, Vice Chair of the Region H Water Planning Group Executive Committee and head of the Harris-Galveston Coastal Subsidence District. Mike Reedy of Freese and Nichols served as a resource. Deer Park City Manager Jay Stokes commented on the city’s water source, its contract with the City of Houston, and its aging water and sewage treatment infrastructure. *(Meeting #214)*

MONDAY, AUGUST 27, 2012 – Within the broader context of economic development, Chad Burke, Executive Director of the Economic Alliance Houston Port Region, talked about Bayport Container Port traffic and transportation issues including the allowable weight of trucks. Burke also addressed the anticipated increase in local truck traffic when the Panama Canal expansion is completed in 2014 and other growth in the area. *(Meeting #215)*

MONDAY, SEPTEMBER 24, 2012 -- The 216th meeting of the Deer Park Community Advisory Council was held on Monday, September 24, 2012 at the Houston Yacht Club. In lieu of a regular meeting, members, plant managers, and their spouse or guest enjoyed one of the group's occasional banquets that build relationships between community and industry by helping people get to know each other. The 6:30 – 8:30 p.m. event was planned by members Norma Hysler, Ken Donnell, and Roy Roberts. Plants donated gift cards or other door prizes. Each attendee was given a question to ask of others to help them become better acquainted. *(Meeting #216)*

MONDAY, OCTOBER 22, 2012 – The annual report on DPCAC plant emissions was coordinated by Oxy Vinyls, with Kevin Spangler collecting, compiling, and presenting the data from member plants' air emissions inventory and Toxics Release Inventory. The TRI report covered releases to the environment (air, land, and water). Releases to land include deepwell injection as well as spills. Members were also informed about changes coming to the CAER Line, which were presented by Johan Zaayman of Shell, who serves on the EHCMA Community Relations Committee. Lubrizol served as the host plant. *(Meeting #217)*

MONDAY, NOVEMBER 26, 2012 – Walt Crow and Brad Flowers of Houston Regional Monitoring (HRM) made HRM's annual air quality report, indicating that air quality continues to improve. It covered ozone and air toxics for the greater Houston region and for Deer Park and also included an introduction to air monitors and what they sample. Members took part in a self-evaluation survey of DPCAC with a goal of helping the group improve. OxyVinyls served as the host plant. *(Meeting #218)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2013 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 28, 2013 -- Twelve "State of the Plants" reports were made, covering 15 of the 17 DPCAC plants. In small group discussion, attendees discussed both the best things they heard and some issues that were troubling to them. Anne Gowan replaced Victoria Smith as DPCAC secretary. Results of a DPCAC self-evaluation were handed out, but time did not permit discussion. Facilitator Diane Sheridan discussed some changes that need to be made to the financing of DPCAC activities. Members agreed that DPCAC may become an independent committee of East Harris County Manufacturers Association, with its funds restricted to its use, pending approval of this structure by the EHCMA board. They also agreed the DPCAC bank account may be restructured to reflect this change and to include the EHCMA executive director as a signatory. Dave Phillips resigned from the Treasury Committee as he has moved to another position in Momentive. *(Meeting #219)*

MONDAY, FEBRUARY 25, 2013 – DPCAC returned to a topic covered periodically since the group's formation: *Health Impacts from Environmental Exposure*. Responding to DPCAC's request, the Texas Department of State Health Services Vital Statistics Department sent data comparing the reasons for mortality in Deer Park to the reasons people die in Texas as a whole. Tara Capobianco with the Texas Commission on Environmental Quality explained how the agency uses air monitoring data and emissions data to protect public health. She also described TCEQ's Air Pollutant Watch List (APWL) program and reported on the APWL site for benzene in Galena Park and the site for styrene (odors) at the Lynchburg Ferry. DPCAC plants commented on whether and how their companies monitor employee health during active work years and retirement and whether they have conducted any mortality studies related to the chemicals they produce. Most have not. Katherine Mitchum was added as a member. Results of a self-evaluation of DPCAC and 5 other CACs in the area were reported, showing DPCAC with the highest overall score among the 6 groups. Bobby Garcia was selected to serve another 3-year term on the Treasury Committee. Bob Berger of Momentive was selected to fill the vacancy that opened when Dave Phillips moved to a different position within Momentive and resigned from the Treasury Committee. Treasury Committee member Roy Roberts, who serves as the treasurer, was authorized to 1) close the Chase Bank account in the name of "Deer Park Community Advisory Council, EHCMA Outreach Program" and open a new account at Iberia Bank in the name of "East Harris County Manufacturers Association Deer Park Community Advisory Council" and to deposit into it the funds from the Chase account. DPCAC members authorized DPCAC Treasury Committee members Roy Roberts and Norma Hysler to continue to serve as signatories to the account. They also authorized EHCMA Executive Director Craig Beskid to serve as a signatory to the account. If the requirement to provide names of the officers of the organization is to be fulfilled by DPCAC rather than EHCMA, DPCAC members authorized the four Treasury Committee members as officers for banking purposes. (DPCAC does not have a board of directors.) Roy Robert proposed the 2013 EHCMA DPCAC budget on behalf of the Treasury Committee. Members approved the proposal without change. *(Meeting #220)*

MONDAY, MARCH 25, 2013 –As a follow-up to the February reports on how plants monitor employee health, Jeff Scott of Shell Deer Park introduced members to industrial hygiene and brought

monitoring devices to show them. He defined industrial hygiene as the science and art of anticipating, recognizing, evaluating, and controlling environmental factors in the workplace and community that can cause injury or illness. *(Meeting #221)*

MONDAY, APRIL 22, 2013 –Malcolm Swinney, City of Deer Park Director of Emergency Services, updated members on how emergency planning, response, and communications work in Deer Park. Professor Robert Heath of the University of Houston presented highlights of a recent study he conducted on behalf of the Deer Park Local Emergency Planning Committee. Heath analyzed emergency response awareness and practices and compared them to prior studies of the city. Steve Hansen of Shell Deer Park spoke on behalf of Houston Regional Monitoring. He summarized the EPA School Air Toxics Monitoring Program, which included monitoring at San Jacinto Elementary School that began in 2009. EPA recently announced that the monitoring project at the school is ending because monitors did not detect specific air toxics at levels of concern. *(Meeting #222)*

MONDAY, JUNE 3, 2013 – Rich Haut of the Houston Advanced Research Center provided basic information about what shale fracking is, how it came about, shale fracking in Texas now and in the future, and its impacts on the petrochemical industry. In response to members' request to learn the basics of fracking *and* how it can be done in an environmentally sound way, Haut spoke of the Environmentally Friendly Drilling (EFD) program, in which HARC and Haut play a leadership role. Plants described the changes, if any, that fracking is bringing to their local operations or corporation. DPCAC community member Norma Hysler was selected to replace Roy Roberts as the DPCAC representative to the Deer Park Local Emergency Planning Committee. *(Meeting #223)*

MONDAY, AUGUST 26, 2013 – In response to member requests made after the West, Texas explosion for information about risk management planning and other efforts to plan for and prevent worst case and other scenarios with the potential to have consequences off the plant site, facilitator Diane Sheridan gathered some basic information and reviewed ways to find out whether “it could happen here.” She focused on laws that directly relate to this topic and noted that changes since 9-11 prevent the sharing of risk management plans that occurred locally in 1999 when plants first had to provide RMPs to EPA. David Smith of Lubrizol then presented an overview of OSHA Process Safety Management and PSM's 14 components. PSM protects workers by preventing significant fires, explosions, and toxic releases. Preventing process safety accidents also helps protect the community. Lisa Stephens resigned due to lack of time to participate. *(Meeting #224)*

MONDAY, SEPTEMBER 23, 2013 – The annual report on emissions from DPCAC plants was presented by Kevin Honohan of Clean Harbors. The TRI segment of the report focused only on air this year. The annual Houston Regional Monitoring report on air quality in the Houston area and Deer Park in particular was presented by Bradley Flowers, with Walt Crow as a resource. Jule' Adcock was added as a member. *(Meeting #225)*

MONDAY, OCTOBER 28, 2013 – Capt. Bill Diehl briefed members on the Panama Canal and Impacts of Its Expansion. A retired US Coast Guard Captain of the Port of Houston and current President of the Greater Houston Port Bureau, Diehl was a senior US diplomat at the Panama Canal when the need to expand was being considered. Texas Molecular's Frank Marine invited members to tour the Deer

Park waste management facility as a followup to questions about deepwells that were asked at last month's annual Toxics Release Inventory report. (*Meeting #226*)

MONDAY, DECEMBER 2, 2013 -- Lisa Gonzalez, Vice President of Houston Advanced Research Center, characterized the Galveston Bay ecosystem, using data from the 2011 *State of the Bay* report, which was researched by HARC and published by TCEQ's Galveston Bay Estuary Program. Speaking as a former chair of East Harris County Manufacturers Association (EHCMA), Dianal Bayport plant manager Jim Griffin summarized results of a 2013 EHCMA water conservation survey of member companies. Malcolm Swinney, Deer Park Emergency Services Director, introduced members to a Storm Risk Calculator developed by Rice University and the City of Houston for Harris County residents. DPCAC agreed to have the facilitator respond to an invitation from USEPA to submit an abstract to present at a Toxics Release Inventory conference next spring by outlining an approach to take but asking to be invited to do so the next time such a conference is held because we could not develop the abstract by the close deadline. (*Meeting #227*)

DEER PARK COMMUNITY ADVISORY COUNCIL

2014 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 27, 2014 – DPCAC plants presented their annual State of the Plants reports, reporting 2013 achievements and 2014 goals and plans. Sheridan reported on her followup with EPA regarding the national Toxics Release Inventory conference. Christine Arcari said local CACs would be invited to make a proposal to make a presentation at the 2015 conference, but EPA would like to see some of the TRI reports before then. The data are public information and members agreed Sheridan may share DPCAC's report. Attendees brainstormed meeting topics for the coming year or so and prioritized them using a sticky-dot exercise. A Program Planning Committee will draft a plan based on the input. *(Meeting #228)*

MONDAY, FEBRUARY 24, 2014 – Bob Piniewski, Project Coordinator for the companies in the Patrick Bayou Joint Defense Group (JDG), and Philip Allen, EPA Region 6 Remedial Project Manager for Patrick Bayou, provided an update on the Superfund site. They described the work that has been completed, which includes the Remedial Investigation and the associated risk assessments. The JDG currently is preparing the Feasibility Study, which will be submitted to EPA this year. The JDG includes the companies on the bayou's boundaries: Occidental Chemical, Shell, and Lubrizol. Allen emphasized that the process has been collaborative. He reviewed community involvement efforts and plans, and members suggested broader publicity when EPA holds open houses or public meetings. Shell's Johan Zaayman, speaking on behalf of the East Harris County Manufacturers Association Community Relations Committee, announced improvements to the CAER Line. *(Meeting #229)*

MONDAY, MARCH 24, 2014 – *Truck Safety, Traffic, and Enforcement* were the topics for speakers from local police departments and a DPCAC plant. Traffic Sgt. John White spoke about these issues for Deer Park Police Department. Sgt. Gary White, Commercial Vehicle Enforcement officer in Pasadena PD, was accompanied by Sgt. Mike Ludeke of that department. They spoke of Pasadena's DOT truck safety enforcement program. Sgt. Dan Hoffman spoke about La Porte PD's DOT program. Max Rutz, Health, Safety, and Environmental Manager at Delta Companies Group talked about the plant's role in managing routes, traffic, and truck weight of the bulk carriers that bring chemicals to them for packaging into smaller containers before distribution. *(Meeting #230)*

MONDAY, APRIL 28, 2014 -- Dan Reilly of the National Weather Service shared predictions for the 2014 hurricane season. Troy Bearden, Dow Chemical Site Emergency Services Leader, talked about hurricane plans to help members know how a plant prepares for, reacts, and recovers from a hurricane. David Wade, Harris County Industrial Liaison, described county plans for evacuation and communications this season. He also described the Industry Operations Center and the EHCMA Hurricane Season Reporting System and its uses. Malcolm Swinney, City of Deer Park Emergency Response Coordinator, described the city's plans for 2014, including communications. He explained the importance of evacuating when ordered to do so, and reminded members how to sign up for emergency messages. DPCAC members chose to add four new members to the group, pending their acceptance: John Garrett, Sherry Garrison, Cara Herbeck, and Maria Sanchez. *(Meeting #231)*

MONDAY, JUNE 2, 2014 – The May meeting was moved to June 2 due to the Memorial Day holiday. An update on Hurricane Surge Suppression Projects was provided by the 4 entities working on this issue. The coastal barrier system commonly called the Ike Dike was described by William Merrell, Professor at Texas A&M Galveston. Larry Dunbar, Project Manager for the Severe Storm Prediction, Education, and Evacuation from Disasters (SSPEED) Center housed at Rice University, spoke about SSPEED's proposed Centennial Gate, the Lone Star Coastal National Recreation Area, and the associated Lone Star Coastal Exchange. Sharon Tirpak, Project Manager, described the US Army Corps of Engineers Galveston District coastal storm damage risk management and ecosystem restoration projects and the Corps of Engineers processes that must be followed for federally funded projects. Chris Sallese, Project Manager for the 6-county Gulf Coast Community Protection and Recovery District, explained the district's purpose and plans. *(Meeting #232)*

MONDAY, AUGUST 25 2014 – Rick Deel of Lubrizol, Chair of the East Harris County Manufacturers Association Security and Emergency Management Committees, explained about Unmanned Aerial Vehicles (drones), what they are used for, and their potential use in industry. No plants at the meeting owned a drone but one had contracted with a company that uses drones to conduct flare inspections. Members saw potential for their use in industry for purposes such as inspections, security, environmental monitoring, and emergency response. *(Meeting #233)*

MONDAY, SEPTEMBER 22, 2014 -- The annual report on emissions from DPCAC plants was presented by Steve Hansen of Shell Deer Park. The Toxics Release Inventory (TRI) segment of the report focused only on air this year. The annual Houston Regional Monitoring report on air quality in the Houston area and Deer Park in particular also was presented by Hansen, a member of the HRM Technical Advisory Committee. Volunteers were requested for planning the 25th anniversary celebration in March. Volunteers were requested for planning the 25th anniversary celebration in March. They included Christina Perez, Texas Molecular; Jule' Adcock, Ruth Boyd, Norma Hysler, and Roy Roberts. Ken Donnell offered to arrange for music, if the committee wishes. Steve Horton and Mike Mitchum will also assist. *(Meeting #234)*

MONDAY, OCTOBER 27, 2014 – Gary Scheibe of Shell, Chair of the Houston Ship Channel Security District, reviewed the district's history and described its accomplishments and plans. Tammy Little, Production Manager of the Shell Deer Park Refinery, explained the challenges that winter weather poses for local plants, described Shell's winter weather plans for equipment and personnel, and talked about the lessons learned from the winter of 2013-2014. *(Meeting #235)*

MONDAY, DECEMBER 1, 2014 – Postponed due to Thanksgiving, the November meeting took place on Dec. 1. Anja Borski of the Galveston Bay Foundation (GBF) described plans for publishing an annual report card on the health of the Galveston Bay system. GBF is seeking input from a wide variety of stakeholders, including Deer Park community members and industry. DPCAC members reviewed a list of possible topics and indicated those they were most interested in learning about. They were asked how familiar they were with ecosystem services provided by Galveston Bay and habitats in the bay and its surrounding watershed—and how threatened they thought those services are. Borski also collected opinions on how the report card could be most useful to the public and

what members would like to see in a report card. Longtime member Jack Heintschel resigned due to a move out of the area. Valvoline served as the host plant. *(Meeting #236)*

DEER PARK COMMUNITY ADVISORY COUNCIL

2015 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 26, 2015 – DPCAC plants presented their annual State of the Plants reports, reporting 2014 achievements and 2015 goals and plans. Members also asked them to comment on whether the slump in the oil industry is affecting their plans. Malcolm Swinney announced his resignation; he is retiring as the city's Director of Emergency Services. He introduced his replacement, Robert Hemminger. Group photos were taken for a 25th anniversary booklet. *(Mtg #237)*

MONDAY, FEBRUARY 23, 2015 – Bruce Mann, Freight Mobility Director for the Port of Houston Authority, spoke about *Impact on Roads from Industrial Growth and Panama Canal Expansion*. He provided an overview of the anticipated Texas volume growths by 2040, waterborne and transactional truck volumes, and past growth and future projections. Mann spoke about how the POHA helps prevent overweight trucks and how the POHA is preparing for future growth in order to help the flow of truck traffic on Houston roadways. He spoke specifically about the Bayport and Barbours Cut Container Terminals and reviewed upcoming projects and capital investments at the sites. Road projects being considered as a result of industrial growth and Panama Canal expansion were also discussed. Barry Klein, General Manager for Shell Deer Park, provided an update on contract negotiations with the United Steelworkers. *(Meeting #238)*

MONDAY, MARCH 23, 2015 – In late March, nearly 80 Deer Park Community Advisory Council (DPCAC) current and former community and plant members, special guests—and their spouse or guest—gathered at the Houston Yacht Club to celebrate 25 years of providing a forum for dialogue between the local community and 15 Deer Park industrial facilities. Joining most of the 29 current community and 20 plant members in attendance were two of the original organizers: Lubrizol retiree Joe Hodge and former Deer Park Mayor Jimmy Burke. Hodge was one of the original 4 plant managers who created the group. Burke served with them on the steering committee and then as one of the charter members. With him when DPCAC met for the first time on March 26, 1990 at the Shell Gatehouse Training Building were four other banquet attendees. Ken Donnell, Russell Elfstrom, and Norma Hysler remain active members. Margaret Moore returned for the festivities. Other former community members who came to celebrate were Barbara Lewis, Billie Mann, Karen McCarroll, Sam Pipkin, Malcolm Swinney, and Kay Urban Renkel. Former plant members in attendance were Phil Anastasio, retired from Oxy Vinyls; David Reel, retired from Lubrizol; and Dennis Winkler, the Shell community relations manager when he was part of the DPCAC. Two former secretaries, Cynthia Wotipka Boland and Victoria Smith joined current secretary Anne Gowan at the party. Congratulations were offered by Deer Park Mayor Jerry Mouton, a former DPCAC member; Bob Pennacchi of Intercontinental Terminals, the longest serving plant manager today; community relations manager Chris Hext of Lubrizol, the longer serving plant member; and charter member Ken Donnell. David Wade, Harris County Industrial Liaison and frequent participant, was made a member. Wade is a Deer Park resident and firefighter. Serving on the 25th Anniversary Planning Committee were DPCAC community members Roy Roberts, Norma Hysler, Jule' Adcock, Ruth Boyd, and Steve

Horton, and Texas Molecular's Christina Perez. The committee compiled information for a 25th Anniversary booklet given to all attendees, which Perez designed and Texas Molecular printed. The event was organized by DPCAC Facilitator Diane Sheridan, who has served in that role since the first meeting in March 1990. Thanks to the generosity of DPCAC plants and members, the evening ended with a drawing for door prizes. (*Meeting #239*)

MONDAY, APRIL 27, 2015 -- DPCAC tried something new for its 240th meeting. Members and guests could choose between two tours at lunchtime and two tours at dinner time, taking one each time if they wished. Midday tours were offered by the two terminals in the group: Intercontinental Terminals Company (ITC) and Vopak Deer Park. Terminal manager Bob Pennacchi of ITC and William List of Vopak served as hosts at their plants. One evening tour was held at the Lubrizol Deer Park plant, where members of the plant's young engineers' leadership group talked about the facility and served as tour guides. The other evening tour saw Deer Park members travel to Pasadena to see the Process Technology program laboratories at San Jacinto College after hearing Professor Kenneth Jackson, a member of the Pasadena CAC, describe the education of future plant operators. (*Mtg #240*)

MONDAY, JUNE 1, 2015 – In response to member requests to know the volume of barge vs. ship traffic, facilitator Diane Sheridan presented shipping data that the Greater Houston Port Bureau obtained from a U.S. Census Bureau report on U.S. merchandise trade. Annually, there are approximately 200,000 vessel movements by barges and 20,000 by deep draft ships moving cargo on the Houston Ship Channel. Mark Wright, Vice President Southern Region of American Waterways Operators (AWO), spoke about the barge industry, covering a variety of topics selected by members and responding to numerous questions. The May meeting was postponed until June 1 due to Memorial Day. (*Meeting #241*)

MONDAY, AUGUST 24, 2015 – In response to member questions about the impacts the Keystone XL pipeline might have on the refining section along the Gulf Coast, a general presentation was made by Vijay Barreto, Shell Deer Park Business Manager. Comments on the political issues associated with the more controversial northern segment of the pipeline were made by Ben Couhig, an aide to Member of Congress Brian Babin. Prior to the main topic, Michelle Roberson, production manager at Shell Deer Park Chemical, reported on a significant release of 1-3-butadiene product on August 9, 2015. Concerns were voiced by the city and several members about notification of the City of Deer Park and use of *Community Emergency Communications Handbook* protocols. (*Meeting #242*)

MONDAY, SEPTEMBER 28, 2015 – The Annual Reports on Emissions and Air Quality were presented. The emissions report was presented by Scott Greene of Lubrizol, who coordinated the data request, collection, compilation of 2014 data from the TCEQ Air Emissions Inventory and the EPA Toxics Release Inventory. Steve Hansen of Shell, a member of the Houston Regional Monitoring Technical Advisory Committee, made the annual report on air quality trends in the area, highlighting Deer Park monitors and covering ozone, air toxics, and particulate matter. Shell's Michelle Roberson and City of Deer Park Mayor Jerry Mouton described followup to the August 9 Shell release. (*Meeting #243*)

MONDAY, OCTOBER 26, 2015 -- Though plants submit data annually on more than TRI releases to air, DPCAC asks for presentations only every few years on other aspects of TRI. Last year's input indicated it was time for a report on these categories. Frank Marine of Texas Molecular presented the data on TRI releases to land, which includes deepwells, as well as an overview deepwells. Texas

Molecular operates commercial deepwells. Plants that have TRI offsite transfers provided examples of what they transfer, where it goes, and how it is managed at the destination; e.g. recycling, energy recovery, incineration, landfilling, etc. *(Meeting #244)*

MONDAY, NOVEMBER 30, 2015 -- To plan programs for the next 12 months, DPCAC conducted a program planning session. After sharing the industry-related questions and concerns on their minds and reviewing Program Plans from DCPAC and similar groups, small groups proposed topics. The topics were then listed on flip charts. All attendees used sticky dots to indicate those they most want DPCAC to address in the coming year. Input will be used by the Program Planning Committee to draft a Program Plan for review and adoption by the DPCAC membership. Denise DeLaune of Dow Deer Park and community members Sherry Garrison, John Garrett, and Steve Horton volunteered for the committee. *(Meeting #245)*

DEER PARK COMMUNITY ADVISORY COUNCIL 2016 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 25, 2016 -- DPCAC plants presented their annual State of the Plants reports, reporting 2015 achievements and 2016 goals and plans. They also were asked to tell members if they have any expansions underway or planned. *(Meeting #246)*

MONDAY, FEBRUARY 22, 2016 -- Anja Borski of the Galveston Bay Foundation returned to DPCAC to present GBF's first Galveston Bay Report Card. She had solicited input for the report from DPCAC members and other attendees in late 2014, and did so at this meeting for the second year of what is to be an annual evaluation of the health of the bay. Clean Harbors made its State of the Plant report, having been unable to attend last month. Members approved the 2016 DPCAC budget, presented by Roy Roberts on behalf of the Treasury Committee. Bobby Garcia was appointed to another term on that committee. Marlene Mercado of Hexion was chosen as the plant representative on the committee. *(Meeting #247)*

MONDAY, MARCH 28, 2016 -- All plants were asked to summarize their community relations programs, tell attendees whether they have a full-time community relations manager, if they have a set community relations budget, and the application process to apply for support. Deer Park Community Advisory Council launched a new standing agenda item in which a question of interest to the community is answered by the plant serving as the host for that meeting. The "Question of the Month" will also be featured on the home page of www.deerparkcac.org. Any resident is welcome to suggest questions about the petrochemical industry for DPCAC's consideration. Host plant Dow posed the question, "What Is a Flare?" *(Meeting #248)*

MONDAY, APRIL 25, 2016 – Lubrizol Plant Manager Tanya Travis and Health and Safety Manager Ben Mitchell provided an overview of Plant Safety and Environmental Programs and the Resources Dedicated to Them. The Question of the Month, prepared by host plant Evonik, was "When a Truck/Railcar Leaves a Site, Who is Responsible?". *(Meeting #249)*

MONDAY, MAY 23, 2016 – DPCAC members and guests met at the new US Coast Guard Station at Ellington Field for a presentation by Capt. Rob McLellan on the Coast Guard’s missions, with a focus on its interaction with industry. McLellan and Commander Luis Sandoval, Chief of Logistics, each took half the attendees on a tour of Vessel Traffic Service and the Command Center. The Question of the Month, prepared by host plant Texas Molecular, was “What is underground injection of hazardous aqueous waste in deepwells?” (*Meeting #250*)

MONDAY, AUGUST 22, 2016 -- Deer Park Community Advisory Council (DPCAC) members invited Andy Britt, Manager, Gulf Coast Industrial Hygiene Services for the Center for Toxicology and Environmental Health (CTEH), to help them understand industrial hygiene, a program in plants that aims to protect workers from workplace hazards. Members made 3 treasury-related decisions. Steven F. Horton was appointed to the EHCMA DPCAC Treasury Committee to replace Roy Roberts and assume the duties of maintaining books, managing the bank account, collecting dues from plants, writing checks, and performing other finance-related duties as needed. Horton was made a signatory to the checking account, replacing Roberts. Other members of the Treasury Committee are unchanged. For banking purposes, members appointed the four to serve as EHCMA DPCAC Officers: Steven F. Horton, Norma Hysler, Bobby Garcia, and Marlene Mercado. (*Meeting #251*)

MONDAY, SEPTEMBER 26, 2016 – The Annual Reports on Emissions and Air Quality were presented. The emissions report was presented by Alan Haggadone of Dow Chemical, who coordinated the data request, collection, compilation of 2015 data from the TCEQ Air Emissions Inventory and the EPA Toxics Release Inventory. Steve Hansen of Shell, a member of the Houston Regional Monitoring Technical Advisory Committee, made the annual report on air quality trends in the area, highlighting Deer Park monitors and covering ozone, air toxics, and particulate matter. Novvi was accepted as a new plant member. (*Meeting #252*)

MONDAY, OCTOBER 24, 2016 -- Mark Turvey, Lubrizol Fire Chief and Chair of Channel Industries Mutual Aid (CIMA), made a two-part presentation on *Emergency Response to a Plant Incident and Related Communications: Who Does What? Part 1: Response*. Turvey explained how a plant responds to a plant emergency, such as a fire or explosion. If the event is large enough that a plant’s Emergency Response Team cannot handle it alone, plants may call on Channel Industry Mutual Aid (CIMA). Plants that are not members of CIMA may ask for their help and pay CIMA for the response. But most non-CIMA plants would call the Deer Park Fire Department and other local emergency service providers. (*Meeting #253*)

MONDAY, NOVEMBER 28, 2016 -- The second meeting on *Emergency Response to a Plant Incident and Related Communications: Who Does What?* focused on communications. Robert Hemminger, City of Deer Park Emergency Management Coordinator, described Community Emergency Communications protocols to be used by all plants and all east Harris County cities as well as the county. He talked about e-Notify, the system Deer Park plants use to notify responsible agencies in impacted cities or the county as well as the community warning systems the city has in place to warn residents, for example, of a need to shelter in place. Jeff Suggs, incoming chair of the EHCMA Emergency Management and Communications Committee, described the CAER Line’s purpose, how it works, and how EHCMA makes the public aware of it. Suggs also sought input on how to improve the CAER Line. (*Meeting #254*)

DEER PARK COMMUNITY ADVISORY COUNCIL

2017 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 23, 2017 -- DPCAC plants presented their annual State of the Plants, covering 2016 accomplishments and 2017 goals and plans. Plants also reported on any expansions underway or planned. The Question of the Month was presented by Hexion. It asked how plants manage the safety of contractors. *(Meeting #255)*

MONDAY, FEBRUARY 27, 2017 -- Roy Watson, Chair of the Workforce Development Committee of the East Harris County Manufacturers Association (EHCMA), spoke on *EHCMA Efforts to Develop the Industry Workforce*. He highlighted EHCMA's new PetrochemWorks website. Denise Smesney of the Economic Alliance Houston Port Region attended the meeting and added comments about their workforce development activities. The Question of the Month was prepared by Delta Companies Group on the topic of OSHA Standard Interpretation Letters. *(Meeting #256)*

MONDAY, MARCH 27, 2017 -- DPCAC traveled by bus to Houston TranStar for a tour of the Harris County Office of Homeland Security and Emergency Management at the invitation of Harris County Industrial Liaison David Wade. Misty Gunn, Manager of the county's Emergency Operations Center, described the office and its work. Wade talked about his role as Industrial Liaison. Gunn then showed members the EOC, described its staffing, and demonstrated some of its capabilities. Several La Porte CAC members joined DPCAC on the tour. The Question of the Month, prepared by GEO Specialty Chemicals, was *How Important is the Chemical Industry to the Texas Economy?* *(Meeting #257)*

MONDAY, APRIL 24, 2017 – DPCAC continued its discussion of programs to develop the future workforce for the petrochemical and associated industries by hearing from two organizations and San Jacinto College. David King of INEOS represented the *Dream It, Do It* program and described its focus. DPCAC member Steve Horton, Construction and Maintenance Education Foundation (CMEF) Schools Training Division Director, described CMEF's NCCER training and its outreach to schools. DPCAC member Jeffrey Parks, Dean of Business and Technology at San Jacinto College, focused on 5 programs in his division and described the college's new Center for Petrochemical, Energy and Technology. *(Meeting #258)*

MONDAY, MAY 22, 2017 – Steve Roberts, a chemical homeland security consultant who works with the EHCMA Homeland Security Committee, spoke about programs that direct how facilities and transportation entities that work with certain quantities of chemicals of interest plan and protect potentially dangerous products from release, theft, and sabotage. Specific legislation covered included the Chemical Facility Anti-Terrorism Standards (CFATS), Maritime Transportation Security Act (MTSA), Department of Transportation HM-232, and the Transportation Security Administration (TSA) Rail Security Rule. Members were also reminded of the role that the Houston Ship Channel Security District plays in protecting the port. The Question of the Month, prepared by Lubrizol, was *How do you prevent heat-related illness during the summer months?* Marlene Mercado of Hexion was chosen by unanimous member agreement to serve another term on the EHCMA DPCAC Treasury Committee, with her term expiring 2-20. *(Meeting #259)*

MONDAY, SEPTEMBER 25, 2017 – DPCAC heard from member facilities and city/county representatives about the impact Hurricane Harvey and related flooding had on plant operations and employees. Most plants fared well, with minimal operating impact. Many ride out crews that stayed during the storm were stranded longer than anticipated, but there were no storm related injuries reported. After Harvey updates, the emissions report was presented by Kevin Spangler of Oxy Vinyls , who coordinated the data request, collection, and compilation of 2016 data from the TCEQ Air Emissions Inventory and the EPA Toxics Release Inventory (TRI). The Question of the Month, prepared by OXY Vinyls, was *What is the Chlorine Institute?* (Meeting #260)

MONDAY, OCTOBER 23, 2017 – Joseph “Kip” Haney provided an overview of how the TCEQ Toxicology Division reviews air data, sets permit levels, remediates risk assessments, communicates risk and publicizes data for policymakers. Benzene and 1,3 Butadiene, two chemicals of interest to DPCAC members, were used to demonstrate how reference values are established. Kathy Daniels, Shell Deer Park Environmental Manager, and Angie Espinoza, Shell Product Steward, elaborated on the uses and chemical properties of benzene and butadiene, as well as how their site manages the health, safety, security and environmental aspects of chemical products through product stewardship practices. The Question of the Month, prepared by Dow Chemical, was *What is Responsible Care?* (Meeting #261)

MONDAY, NOVEMBER 27, 2017 – Houston Regional Monitoring (HRM) Technical Advisory Committee Chair, Steve Smith of LyondellBasell, presented regional and Deer Park trends for ozone, air toxics, and particulates. HRM plays a key role in the monitoring of regional air quality in Houston, and their data demonstrates that air quality has improved dramatically and continues to improve. The region has seen an average 67 percent reduction in nitrogen oxides (NOx) and an average 55 percent reduction in highly reactive volatile organic compounds (HRVOCs). Ozone is formed when NOx and VOCs combine in the presence of sunlight. Ozone formed at ground-level where we live and breathe, is a respiratory irritant, linked to asthma, bronchitis, and heart attacks. Air monitoring data shows significant declines in the number of ozone exceedance days since 1985. Additional air quality data sets, such as BTEX (benzene, toluene, ethylbenzene and xylenes) and particulate matter (PM10 and PM 2.5) are also trending downward. The Question of the Month, prepared by Evonik, was *What do you do for shelter in place?* (Meeting #262)

DEER PARK COMMUNITY ADVISORY COUNCIL

2018 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 22, 2018 -- DPCAC plants presented their annual State of the Plants, covering 2017 accomplishments and 2018 goals and plans. Plants also reported on any expansions underway or planned. Barbara Willy, President of the Native Prairies Association of Texas, presented a brief update on the State of the Deer Park Prairie. The Question of the Month was posed to all plants. It asked about the challenges freezing weather pose to a plant, how do they prevent problems, and how did they fare this winter. (Meeting #263)

MONDAY, FEBRUARY 26, 2018 – Allatia Harris, Van Wigginton, Jim Griffin and Randy Boeding presented a progress report for the new Center for Petrochemical, Energy, and Technology (CPET) at San Jacinto College. Construction on the conference, training and assembly spaces, as well as state-of-the-art labs and a glycol/water separation unit and control room is expected to be complete by Fall 2019. Philip Allen, EPA Remediation Program Manager, and Bob Piniewski, representative of the plants in the potentially responsible parties group, presented an update on the status of the Patrick Bayou Superfund site. The EPA is on track to propose one or more remedies for the site in early 2018, hold a public meeting, and accept public comment before they issue the Record of Decision by the end of the year. By unanimous vote, DPCAC members selected DPCAC community member Charles Thomas to replace Norma Hysler as a member of the Treasury Committee, to serve a 3-year term. Hysler will be removed as a signatory to the EHCMA DPCAC bank account and Thomas will be added. By previous decision, the members of the Treasury Committee serve as DPCAC’s officers for banking purposes. (DPCAC does not have a board of directors.) Also by unanimous vote, DPCAC members adopted the 2018 budget as presented by Treasurer Steve Horton. *(Meeting #264)*

MONDAY, MARCH 26, 2018 – DPCAC members brainstormed ideas for topics they would like addressed in the coming year. Attendees used sticky dots to prioritize topics, and community member points were used to prioritize topics at the top of the list. Sherry Garrison, John Garrett, Ruth Boyd, Jeff Lichon and Amanda Accardo volunteered to serve on the Program Planning Committee, which will meet to draft a program plan that, once adopted, will form the basis of agendas for upcoming meetings. Texas Molecular and Valvoline each presented a Question of the Month this meeting: *How does a hazardous waste treatment facility know what a customer sends to them for disposal at their facility, and How do local chemical plants safeguard their critical processes and hazardous materials?* *(Meeting #265)*

MONDAY, APRIL 23, 2018 – Robert Hemminger, City of Deer Park Emergency Management Coordinator, and Sean Guillory, Shell Pipeline, shared information about pipeline history, safety, incident response, regulation, benefits, and maintenance. Attendees learned there are a lot of pipelines and pipeline corridors in Deer Park, and were invited to tour Shell’s Pipeline Control Room in Katy, Texas. Vopak presented the Question of the Month this meeting: *What is Process Safety Management (PSM)?* *(Meeting #266)*

MONDAY, JUNE 4, 2018 – Maria Aponte with the Southeast Harris Area Office of TxDOT gave an overview of current and future construction projects involving SH 146, SH 225, and Red Bluff Rd. Matt Kainer from the Harris County Toll Road Authority, provided an update on plans for the expansion of the Beltway 8 Bridge over the Houston Ship Channel. Chad Burke, President/CEO of the Economic Alliance Houston Port Region, presented the Transportation Task Force’s list of project priorities, developed to ensure that local business and industry infrastructure needs are considered. DPCAC members approved the Program Planning Committee’s plan for meeting topics for the rest of 2018 and early 2019 as presented. Shell Deer Park presented the Question of the Month this meeting: *What is a turnaround?* *(Meeting #267)*

MONDAY, AUGUST 27, 2018 – Robert Hemminger, City of Deer Park Emergency Management Coordinator, shared the city’s perspectives on what was learned from Harvey and how they made changes to prepare for the 2018 hurricane season. Special attention was paid to ways the city and industry work together during extreme weather events. CAC plants shared a couple details about

how lessons learned from Harvey impacted their hurricane preparations for this year, as well. Scott Jones, from the Galveston Bay Foundation, provided an overview of the impacts and recovery of Hurricane Harvey in Galveston Bay, as well as a brief update on the status of the Coastal Spine approach for storm surge protection. Clean Harbors presented the Question of the Month this meeting: What is a characteristic hazardous waste? (*Meeting #268*)

MONDAY, SEPTEMBER 24, 2018 - The Annual Report on Emissions from DPCAC Plants was presented by Trilby Cressman of Evonik, who coordinated the data request, collection, and compilation of 2017 data from the TCEQ Air Emissions Inventory and the EPA Toxics Release Inventory (TRI). Hexion presented the Question of the Month this meeting: What does a plant do when a hurricane is predicted? (*Meeting #269*)

MONDAY, OCTOBER 22, 2018 - Mark Vincent, Director of Channel Development for the Port of Houston Authority presented an update on projects by the Authority to modernize and promote navigation safety along the Houston Ship Channel. Vincent addressed updates being made to the Barbours Cut and Bayport terminals, a proposal to widen the Houston Ship Channel, ongoing dredging activity and needs, and the Port's position on a coastal protection plan. Delta Companies Group presented the Question of the Month this meeting: What is Petrochemworks.com and how is it helpful for the community?" (*Meeting #270*)

MONDAY, NOVEMBER 26, 2018 - DPCAC community and plant members and 20 Deer Park High School (DPHS) engaged in discussions about jobs and workplace conditions in the petrochemical industry. DPHS students from science, math, and career and technology classes submitted more than 300 questions and responses to these questions before the meeting, providing industry with valuable, unfiltered feedback about student views of industry. GEO Specialty Chemicals presented the Question of the Month this meeting: "What is a Chemical?" (*Meeting #271*)

DEER PARK COMMUNITY ADVISORY COUNCIL 2019 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 28, 2019 -- DPCAC plants presented their annual State of the Plants, covering 2018 accomplishments and 2019 goals and plans. Plants also reported on any expansions underway or planned. Diane Sheridan presented information on the mission, purposes/objectives and previous/current outreach activities for the DPCAC. Members were asked to share ideas on ways to make the community aware of both what the CAC does and what member plants do. (*Meeting #272*)

MONDAY, FEBRUARY 25, 2019-- Dr. Victor Simms, Managing Physician and Chief of Internal Medicine at the Kelsey-Seybold Pasadena Clinic, presented information about health impacts (such as asthma, cancer, or other illnesses) of living in industrialized areas like Deer Park. Lubrizol presented the Question of the Month this meeting: *What does "Organic" mean for the chemical industry vs. other industries?* Steve Horton presented the proposed budget on behalf of the Treasury Committee. It was adopted by members as proposed. By unanimous consent, DPCAC members voted in favor of

appointing Bobby Garcia to another three-year term on the Treasury Committee. Garcia will serve until February 2022. *(Meeting #273)*

MONDAY, MARCH 25, 2019-- DPCAC learned about workplace training and occupational health services offered by the Houston Area Safety Council (HASC). Cami Hysler, Vice President of Operations, and Dr. Tommy Hysler provided an overview of HASC's programs and role in the community. Oxy Vinyls presented the Question of the Month this meeting: "Why do we need chlorine?" *(Meeting #274)*

TUESDAY, APRIL 30, 2019-- DPCAC toured the Houston Ship Channel aboard the M/V Sam Houston, operated by the Port of Houston Authority. DPCAC industry representatives provided information about the equipment seen along the shore. David Wade, Industrial Liaison to the Harris County Office of Homeland Security and Emergency Management, Rick Deel, East Harris County Manufacturers Association Liaison, and Lt. Lukas Rodriguez, US Coast Guard, were also on hand to answer questions and provide information to attendees about port and facility operations and security along the channel. The Question of the Month this meeting was: "What do the emergency response terms *Incident Commander* and *Unified Command* mean?" *(Meeting #275)*

MONDAY, JUNE 3, 2019 – DPCAC plants shared "show and tell" visual aids to illustrate the types of products their facilities develop. Then members brainstormed ideas for topics they would like addressed in the coming year. Attendees used sticky dots to prioritize topics, and community member points were used to prioritize topics at the top of the list. Community members Steve Horton and Ruth Boyd, and plant representatives Trilby Cressman and Amanda Accardo, volunteered to serve on the Program Planning Committee, which will meet to draft a program plan that, once adopted, will form the basis of agendas for upcoming meetings. Trilby Cressman with Evonik presented the Question of the Month: "How do you shelter in place?" *(Meeting #276)*

MONDAY, AUGUST 26, 2019 – Deer Park Community Advisory Council (DPCAC) learned about local emergency response protocols from a panel of experts that included Robert Hemminger, City of Deer Park Emergency Management Coordinator; David Wade, Harris County Industrial Liaison; Joe Reynolds, Chair of Channel Industries Mutual Aid (CIMA); Mark Turvey, Facility Fire Chief at Lubrizol; and Christina Perez, Chair of the Local Emergency Planning Committee (LEPC) Community Awareness Subcommittee. Speakers addressed how facilities respond to incidents, how CIMA operates, Harris County's role in incident response, Unified Command protocol, how the city and county notify the public of emergencies, and what the LEPC is doing to educate the public about how to shelter in place safely. Members adopted the Program Plan for 2019-2020. Frank Marine of TM Deer Park Services LP (TMDP) presented the Question of the Month: "How do I register for Code Red?" *(Meeting #277)*

MONDAY, SEPTEMBER 23, 2019 – The Annual Report on Emissions from DPCAC Plants was presented by Calvin Greene of Shell Deer Park, who coordinated the data request, collection, and compilation of 2018 data from the TCEQ Air Emissions Inventory and the EPA Toxics Release Inventory (TRI). Before the meeting, members toured the Big Energy Exhibit at the San Jacinto Monument Museum. Admission tickets were provided by Shell Deer Park. Allen Rowbottom with Valvoline presented the Question of the Month: "What steps do you take to prevent a spill?" *(Meeting #278)*

MONDAY, OCTOBER 28, 2019 – Deer Park Community Advisory Council (DPCAC) members were joined by members of the Houston, Seashore, and Baytown Community Advisory Panels for an update on the Coastal Texas Protection and Restoration Study from the Army Corps of Engineers and the Texas General Land Office. Sharon Tirpak and Carrie McCabe from the Army Corps of Engineers, and Dianna Ramirez from the Texas General Land Office, described the work being done by federal and state agencies to study the feasibility of physical construction projects and ecosystem restoration projects, which may buffer the impacts of coastal storms. Clifton Ferrell of Vopak presented the Question of the Month: “What is sustainability?” (*Meeting #279*)

MONDAY, DECEMBER 2, 2019 – The Texas Department of Transportation, Harris County Toll Road Authority, and Harris County Precinct 2 spoke about improvements underway and planned for State Highways 225 and 146, Beltway 8 and the Houston Ship Channel Bridge, the Washburn Tunnel, and the Lynchburg Ferry. Thor Nygaard with Shell Deer Park presented the Question of the Month: “How is metal thickness measured to assure plant equipment stays fit for service?” (*Meeting #280*)

DEER PARK COMMUNITY ADVISORY COUNCIL 2020 ACTIVITIES

After an organizational phase, the CAC first met in March 1990. Recording of a brief history began in January 1996.

MONDAY, JANUARY 27, 2020 – Deer Park Community Advisory Council (DPCAC) members took a tour of the San Jacinto College LyondellBasell Center for Petrochemical, Energy and Technology (CPET). Jeff Pearce, Tom Stang and Joseph Zwiercan led the tours, highlighting areas devoted to process operations, instrumentation, electrical, nondestructive testing and craft trades. Bruce Riffel provided the Question of the Month: “What is a Tier II Report?” (*Meeting #281*)

MONDAY, FEBRUARY 24, 2020 -- Trilby Cressman of Evonik Oil Additives presented an overview of the Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) program. ITC returned to participation in DPCAC with Brent Weber giving a brief update on the status of investigations of their March 2019 fire and current operations. Hexion’s Marlene Mercado provided the Question of the Month: “What is Management of Change ?” Members reappointed Mercado and treasurer Steve Horton to the DPCAC Treasury Committee. Craig Beskid was removed as a signatory to the bank account. Horton presented the committee’s proposal for the 2020 budget, which was adopted by members as presented. (*Meeting #282*)

MONDAY, MARCH 23, 2020 – DPCAC’s banquet to celebrate its 30th anniversary was postponed in mid-March when spread of the COVID-19 coronavirus dictated social distancing. It is tentatively rescheduled for September.

MONDAY, APRIL 27, 2020 – For the first time in its 30-year history, the Deer Park Community Advisory Council (DPCAC) met by video and audio rather than in person. Participants heard jR Ragaisis, Dean of Business & Technology at San Jacinto College’s Central Campus and DPCAC member, describe the college’s programs geared toward the petrochemical industry. Ragaisis also listed financial and other resources available to support students. (*Meeting # 283*)

MONDAY, JUNE 1, 2020 - Meeting once again by Zoom video, DPCAC plants provided an *Interim Report on COVID-19 and the Lessons Learned So Far* by responding to 7 questions. The questions were compiled by the facilitator to cover topics of community interest and were also asked in two other CACs. (Meeting #284)

MONDAY, AUGUST 24, 2020 - Meeting once again by Zoom video, DPCAC members learned about Project 11, the upcoming expansion of the Houston Ship Channel. Richard Ruchhoeft, Port Houston Channel Development Project Manager, provided an introduction to and overview of the project. (Meeting #285)

MONDAY, SEPTEMBER 28, 2020 - Rassull Suarez, MD, MPH, the Dow Chemical Health Services Physician Director, presented COVID-19 risks, symptoms, transmission, testing and prevention. (Meeting #286)

MONDAY, OCTOBER 26, 2020 - In the first of a series of meetings on the EPA Risk Management Program (RMP), facilitator Diane Sheridan described the role Deer Park CAC and other CACs played in helping plant members of the East Harris County Manufacturers Association communicate newly required Risk Management Plans (RMPs) in 1999. Members voted to accept the following changes to the EHCMA Treasury Committee: Steven Horton's resignation as EHCMA DPCAC Treasurer (but remains as a member of the Treasury Committee and signatory to the EHCMA DPCAC bank account); Charles Thomas' resignation as a member of the Treasury Committee; Add Cara Herbeck to the Treasury Committee, appoint her to serve as the Treasurer and as a signatory to the EHCMA DPCAC bank account. The emissions report scheduled for the meeting was postponed to November 30 due to technical difficulties with the file. Lubrizol presented the Question of the Month: "What is a Risk Matrix and how is it used in Industry?" (Meeting #287)

MONDAY, NOVEMBER 30, 2020 The Annual Report on Emissions from DPCAC Plants was presented by Christina Penrose of Lubrizol, who coordinated the data request, collection, and compilation of 2019 data from the TCEQ Air Emissions Inventory and the EPA Toxics Release Inventory (TRI). As host plant, Dow prepared the Question of the Month: "What is CAER Online?" (Meeting #288)

MONDAY, JANUARY 25, 2021 – All 13 DPCAC plants made the Annual State of the Plants report, covering challenges and achievements in 2020 and goals and plans for 2021. Rick Pitman of Houston Business Roundtable updated the group on a new industrial cleaning safety initiative. In response to members' interest in a *Houston Chronicle* article about cancer rates and proximity to refineries, the group agreed to form a committee to assemble questions and identify speakers for a meeting on the topic. As host plant, Oxy Vinyls prepared the Question of the Month: "What is Channel Industries Mutual Aid?" (Meeting #289)

MONDAY, FEBRUARY 22, 2021 – Jeff Anderson of Oxy Vinyls Deer Park PVC/Caustic Plant, provided a refresher on the EPA Risk Management Program, covering the original program and the 2019 revisions. Plants commented informally on their experiences during the big freeze, which occurred the prior week. DPCAC agreed to discuss the freeze in more detail at its April meeting. Members agreed to begin a periodic series of meetings related to a recent University of Texas Medical Branch study of cancer rates vs. proximity to refineries by learning about the chemicals referred to in the study. The Question of the Month was prepared by Evonik: "Do Plants have freeze condition plans in

place, similar to hurricane plans?” DPCAC treasurer Cara Herbeck presented the 2021 budget, which was adopted as presented. *(Meeting #290)*

MONDAY, MARCH 22, 2021 – The first of the series of meetings relating to the UTMB study of cancer rates vs. proximity to refineries introduced members to Safety Data Sheets and two CDC publications in which the public may find information a specific chemical. Using a Benzene SDS, Shell Industrial Hygienist Daysha O’Pry reviewed the contents that might be of most interest to the public. DPCAC is replacing Question of the Month with Chemical of the Month, with a short presentation at the meeting and a posting on the website of a short blurb about the chemical and reference materials for those wanting more information. The host plant was Texas Molecular. *(Meeting #291)*

MONDAY, APRIL 26, 2021 – Plants were asked for input about Winter Storm Uri in several ways: Plant attendees raised their hands to answer several questions. Four CAC plants of different types and sizes spoke briefly about what their plant experienced during Winter Storm Uri, lessons learned and what they will do differently the next time a severe freeze is forecast for the Greater Houston area. Attendees met in Zoom breakout rooms so that all plants could discuss their experiences with community members. There was an opportunity to ask questions after the presentations and during and after the breakout room discussion. The host plant was Valvoline. *(Meeting #292)*

MONDAY, MAY 24, 2021 – DPCAC continued exploring the BTEX chemicals with a meeting on *Benzene Emissions and Air Monitoring Trends for Benzene, Toluene, Ethylbenzene, Xylenes*. Steve Smith, Technical Advisory Committee Chair of Houston Regional Monitoring (HRM), showed air quality trends for BTEX chemicals since 1988. Matt Van Vleck of Harris County Pollution Control Services showed members how to find data from its expanded air monitoring capacity and its new Community Air Monitoring Program (CAMP). Facilitator Diane Sheridan summarized results of a survey to see which DPCAC plants make, use, store, move, or otherwise handle BTEX. She showed benzene emissions data from the DPCAC’s last annual report. (It did not include ITC data.) DPCAC plants then described any monitoring at the fence line or in the community (routine or during event, voluntary or required, self-conducted or contracted out). *(Meeting #292)*

MONDAY, AUGUST 23, 2021 – DPCAC added a report to the agenda on an August 15 odor event at the Lubrizol Deer Park plant that released a pungent odor that slowly traveled through multiple communities and was a nuisance to some and an irritant to others. Deer Park Lubrizol General Manager Sam Striegel described the event itself, the plant’s notifications of responsible agencies and its communications with and for the community. Buddy Rice, Interim Emergency Management Coordinator for the City of Deer Park, explained the city’s experience with the event, its decision not to call for a shelter in place, and how the city communicated with residents. Craig Hill and Kayla Roman of Harris County Pollution Control Services talked about air sampling and where the public could track the results. DPCAC facilitator Diane Sheridan summarized input from Deer Park and other communities that expressed frustrations learning what the odor was, its hazards, and steps to protect yourself and your family. In an effort to learn from this experience, community input will be shared with industry and government entities responsible for communicating with the public in an emergency. The meeting ended with the planned presentation on how plants protect workers who could be exposed to Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). CTEH toxicologist Scott

Malm described typical engineering and administrative controls for BTEX, personal protective equipment, and air monitoring and sampling tools. *(Meeting #293)*

MONDAY, SEPTEMBER 27, 2021 – The Annual Report on Emissions from DPCAC Plants was presented by Rafael Mendez of Dow, who coordinated the data request, collection, and compilation of 2020 data from plants that file a TCEQ Air Emissions Inventory and/or EPA Toxics Release Inventory (TRI). Guy Hackwell of Shell Deer Park describe passive dosimeters and how they are used in many plants. *(Meeting #294)*