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Leadership in Action Addresses Community Development in Ghana

In a new twist on leadership talent development, Dow provided a unique opportunity for 35 employees to use their skills to enhance local non-profit organizations in Ghana. Under the Leadership in Action-Ghana Community Development Project, employees worked in teams from May to September 2013 to solve some of the challenges facing these seven organizations. Projects included efforts to address STEM education, sustainable farming, issues surrounding access to water, and urban housing.

The program is a talent development effort conducted in partnership with Dow Sustainability Corps, the company's skills-based employee engagement program. Dow enlisted the help of Pyxera Global to connect with the best project opportunities in Ghana. Dow employee participants began work in May 2013 to create plans for their respective organizations. Results range from providing strategic plans on how to grow medicinal plants as cash crops, to providing ways to improve water and sanitation in slums, to improving access to clean water.

Ghana is a rapidly-growing economy in Africa and Dow employees provided access to critical skills for social enterprises, universities and non-government organizations that do not otherwise have access to this level of business acumen. Programs such as Dow Sustainability Corps offer a sustainable approach to developing more resilient economies around the world. At the same time, the company is readying its workforce with a lens for the future.

By immersing employees into the country, they were able to experience the realities of food, health, water and educational challenges facing the Ghanaian people. There is no better way to get a sense for a culture or its people and envision the possibilities for how chemistry and innovation can make a difference.
Award-Winning Dow Lab Safety Academy Opens to the Public

Among university science and engineering students, there’s a dangerous misconception that lab safety can inhibit powerful research. Dow is combating this misconception by helping students become safer in the lab and better prepared for the workforce. Dow was recently honored for its leadership in the chemical process industry and received a 2013 Chemical Engineering & ChemInnovations Award for the Dow Lab Safety Academy, an online learning environment that leverages Dow’s best-in-class safety practices.

The Dow Lab Safety Academy – which offers dozens of video tutorials and downloads that address many of today’s most relevant lab safety issues – was initially developed to help university chemistry and materials science labs heighten safety awareness and prepare students for the rigorous safety practices that would await them after graduation. The effort was widely acclaimed following its launch when Dow leaders recognized that more people could be reached by opening the site up to the public. This move made it possible for any educator or student to access the information, which extends its value and impact. Educators, students, and smaller companies can all benefit from having access to high-quality materials at no cost.

The Academy’s contents are organized around four modules which include: Safety Orientation & Training; Specialized Training; Plan, Evaluate & Execute; and Sustainable Safety Culture. The Dow safety mindset is reflected in the Academy and is based on driving behavior toward incident prevention, sustained by renewed engagement and the responsibility to provide a safe work environment for everyone. Read more.
Innovations for Tomorrow

We contribute to the sustainability of society and our planet by developing innovative technologies for current and future markets.

Dow Performance Packaging Launches Dynamic Innovation Center
Dow Performance Packaging is always ready to help its customers gain firsthand experience with industry-leading technologies that can help turn packaging ideas into premiere, more sustainable packaging solutions. To further enable the development of packaging innovation, Dow launched Pack Studios, a collaborative capability center that can accelerate packaging application projects through a global network of labs, experts and testing equipment. Currently there are four Pack Studios centers around the globe – Freeport, Texas, U.S.; Horgen, Switzerland; São Paulo, Brazil; and Shanghai, China. Each center features a collaboration room to inspire solution-based thinking, laboratory facilities for material development, and fabrication and testing equipment to validate packaging applications. This collaborative approach helps build a stronger foundation for innovative solutions and better, more sustainable packaging. Read more.

Packaging Optimization Strategy in Focus at Wal-Mart Sustainability Forum
Recently, Wal-Mart hosted a Sustainability Forum in Mexico where Dow presented its sustainability strategy in packaging. Dow led a roundtable discussion on “Tendencies in materials and packaging optimization,” which included participants from BASF, Green Blue, Wal-Mart Mexico, Tyson and Danone. The discussion focused around the optimization of resources and value and the importance of plastics for sustainable packaging solutions to increase shelf-life, preserve the nutrition of food and reduce waste. Tyson focused its participation on the importance of collaboration with third parties like Dow when creating a new package that breaks current market tendencies with environmental benefits such as recyclability.

Refinery Converted from Fossil to Bio-Fuel Production
Dow Oil, Gas & Mining, ENI S.p.A, an Italian oil and gas company, and UOP recently partnered to convert a conventional refinery into a bio-refinery. Based on the ENI/UOP ECOFINING™ process and UCARSOL™ Solvents from Dow, this project is the first in the world to convert a conventional refinery into a bio-refinery with a production of over 100 million gallons per year of renewable diesel starting in 2014. The project is highly strategic as it helps to maintain an industrial site earlier announced for closure and avoids jobs cuts to achieve the 20% target of renewable fuel by 2020, improve ENI’s environmental profile, and prove the validity of the ECOFINING process for further commercialization.

Berkeley Sustainable Lab Facilities will Better Prepare Tomorrow’s Scientists
Since 2012, support from The Dow Chemical Company Foundation has enabled the renewal of the University of California Berkeley’s 50-year-old teaching labs and their curriculum. The new facilities, called the Dow Sustainable Chemistry Laboratories, are providing an efficient lab space where modern experiments teach sustainability best-practices to more than 2,300 Berkeley students each year. Dow’s work is helping to provide an education that will prepare Berkeley alums to solve our world’s most pressing challenges through the exciting field of chemistry. With the most chemical science graduates of any U.S. university and consistently top-three nationally ranked Chemistry and Chemical Engineering programs, the Berkeley College of Chemistry is a strategic choice for these contributions both for its R&D value and for talent development purposes. Two years ago, Berkeley became one of Dow’s 11 strategic university partners, receiving investment to conduct cutting-edge research. Today, Dow employs nearly 60 Berkeley alumni in leadership, technical, and business roles.
**Visionary Project Leader Receives Sustainability Innovator Award**

Mike Uhl, currently the Mega-Project Focal Point for the Environmental Technology Center, was recently recognized as the 2013 Sustainability Innovator Award Winner for his novel and outstanding work in building a constructed wetland to treat wastewater at the Dow-owned facility in Seadrift, Texas. Uhl initiated and led this courageous project – saving the Company more than $38 MM in initial capital investment, as well as more than $200 MM over the 15 years the wetlands have been in place. The award recognizes exceptional creativity and solutions by Dow employees that support the company's 2015 Sustainability Goals and address world challenges. Winners represent the “best of the best” in sustainability innovation, perseverance, problem-solving, and delivering tangible results that benefit people, the environment and Dow’s bottom line. Winners receive a Commemorative award and a $2,500 donation from Dow to the charity of each recipient’s choice, which Uhl has chosen to give to Water.org.

**Expert Asked to Help Further Understanding of the Causes of Lung Cancer**

Jim Collins, director of Epidemiology at Dow, has been appointed by the U.S. Environmental Protection Agency (EPA) to serve as an expert on specific chemicals causing lung cancer. He will participate in a two-day, state-of-the-science workshop, which will cover a broad range of evidence from human, animal and in vitro studies. One of the primary goals of the workshop is to study the evidence, from multiple scientific disciplines, regarding formation of chemically-induced lung tumors in mice and how such evidence informs human health assessments. The workshop is being sponsored and organized by the EPA with input from a volunteer committee of outside experts including representatives from academic institutions, state agencies, federal organizations, non-governmental organizations and industry.

**Improving Yield Stability and Sustainability in Canola**

Dow AgroSciences and Alberta Innovates Technology Futures, in partnership with the Canola Council of Canada, have developed a new screening technology that will help breeders select for canola germplasm. The innovation will increase sustainability with improved water use efficiency and better yield stability under dry conditions, which frequently limit canola yield in Western Canada. The successful collaboration is an excellent example of a publicly-funded project with industry support that has led to high quality research results, new capability and capacity, and tangible outcomes that benefit growers, processors and the canola breeding industry.

**Inspiring Next Generation Scientists at the 45th International Chemistry Olympiad**

Dow supported the organization of the 45th International Chemistry Olympiad held recently at the Chemical Department of Moscow State University, Russia. The Olympiad offered secondary school students from 77 countries the opportunity to compete in science at the highest level, exchange experience as well as build new contacts and basis for professional and personal development. Dow views this as a tremendous opportunity to engage in dialogue with young scientists from all over the world and help facilitate the learning environment that will encourage them to explore chemistry in action. Dow developed an extensive program for students, their tutors, the jury committee and organizers as well as participation in high-level meetings.

**Hawkins Named One of the “Most Influential Sustainability Voices in America”**

Neil Hawkins, vice president of Global EH&S and Sustainability, was recognized as one of the “Top 30 Most Influential Sustainability Voices in America” on Twitter by The Guardian. As one of Dow’s most active leaders on social media, Hawkins – otherwise known as @NeilCHawkins – uses his online influence to foster and shape conversations on sustainability with key stakeholders around the world and to positively position Dow in these discussions. Hawkins’ top ranking among online influencers in sustainability was determined based on his individual Klout score, a measure of a person’s online influence based on breadth of his or her engagement across multiple social networks and numbers of interfaces.

**Innovation Award from Unilever for More Sustainable Soap Products**

Unilever recently recognized Dow at the annual “Partner to Win Supplier Summit” in Singapore with the 2013 “Winning through Innovation” Award for innovative performance ingredients from its Personal Care portfolio. Dow’s contribution helps keep the product affordable for customers — many of whom live in developing countries and rely on soap as an essential disease deterrent that protects health and wellness. The 2013 award was given in recognition of the performance and sensorial benefits that POLYOX™ Water-Soluble Resins have brought to hand soap bars and liquids in Unilever’s Lifebuoy™ and Lux™ brands for the Indian and Chinese markets. The addition of POLYOX Resins to the formulation enabled Unilever to reduce their overall formulation costs, improve the sensory feel of the hand soap as it is used, and also increase the life of the soap bar by decreasing the wear rate.
Partners for Change

We are leaders in advancing all aspects of sustainability, openly collaborating with customers, suppliers, communities, civil society and governments.

The Green Chemistry Commitment Seeks to Transform Chemistry Education in the U.S.

Twelve colleges and universities have joined with industry partners like Dow to sign The Green Chemistry Commitment. The effort is a consortium launched by the non-profit Beyond Benign, to design and develop innovative, efficient, and environmentally sound chemical products and processes – and to prepare world-class chemists with 21st century skills. The consortium is bringing green chemistry into undergraduate curriculum in a system and lasting way, to increase the number of green chemists and scientists in the U.S. and the opportunities available to them in the field. As an academic and industrial field, green chemistry encourages chemists and scientists to develop safer, non-toxic, renewable chemistry and materials. Students and faculty embrace green chemistry because they want to shape the future and are earnest about taking responsibility for stewardship of the natural world. More information about The Green Chemistry Commitment, including information about becoming a signer, can be found at www.greenchemistrycommitment.org. Read more.

Energy-Efficient Building Materials Help Hurricane Sandy Restoration Efforts

As homeowners along the east coast rebuild from Hurricane Sandy, there has been increased pressure on the building industry for materials and resources. Professional building tools and materials distributor AWarehouseFull is teaming up with Dow as part of a multi-pronged relief effort for Hurricane Sandy. The two companies will donate energy-efficient insulation and air sealing products to New York Says Thank You and Gateway Church of Christ relief programs. The companies are working together to ease the process of rebuilding the communities impacted by Hurricane Sandy with the contribution of building materials supplies, building industry expertise and knowledge of local communities and their unique rebuilding needs. The effort will help rebuild a stronger, safer and more energy efficient community. Read more.

Making a Splash During World Water Week

World Water Week, hosted and organized by the Stockholm International Water Institute, has become a strong platform to address global water issues. Recently, more than 2,600 participants met to discuss the most pressing water challenges of our time under the theme “Water Cooperation – Building Partnerships.” The need for clean water will never change, but the resources and technology used to create clean water sustainably will constantly evolve to be more efficient and affordable. Water cooperation is essential to addressing the worldwide need for clean water. Dow created the World Water Week 2013 microsite that interactively demonstrates the benefits of water cooperation through real-life examples of how water underpins applications in all industries. Dow also distributed a powerful infographic that depicted how important clean water is for generating electricity in a fossil fuel power plant, as well as preventing corrosion and leaks in cooling towers. To date, the infographic has been viewed over 2,500 times and has been picked up by over 300 online and mobile outlets.

Dow and the University of Michigan Partner on Habitat Neighborhood Revitalization Project

With a focus on sustainable construction, Dow, The University of Michigan and the Huron Valley affiliate of Habitat for Humanity are joining together in a first-time collaboration to renovate three homes in the Gault Village neighborhood of Ypsilanti, Michigan. More than 60 Dow employee volunteers, 37 of which are U-M alumni, were paired with student volunteers to renovate these homes to a high energy standard. Dow products will help to ensure the homes achieve Energy Star standards. Dow products such as STYROFOAM™ brand insulation, GREAT STUFF™ window & door insulating foam sealant, GREAT STUFF PRO™ insulating foam sealants, and GREAT STUFF™ work wipes will be used in the renovations of these homes and all Dow supported Habitat houses in the U.S. Read more.

Underprivileged Students in China Inspired through Second Journey of Hope

Dow Greater China hosted the second Journey of Hope program, bringing 21 outstanding students and 9 teachers from Dow-funded Hope Schools across China on a three-day study tour in Shanghai. The project helps broaden their horizons and inspire them to pursue their dreams through further academic excellence. Inaugurated in 2012, the annual Journey of Hope is designed to encourage outstanding students from remote and underdeveloped areas to dream about the future. This year, the students and their teachers began the trip with a visit to the Shanghai Dow Center, where they interacted with the world’s top scientists and learned about sustainability. They also toured the campus of the prestigious Fudan University, spending quality time with university students. On the last day, they visited the Shanghai Science and Technology Museum and enjoyed sightseeing in the city.
Making a Difference for People across Europe
During the first week of July, various teams from Packaging and Specialty Plastics all around Europe dedicated one day of work to local and non-local nonprofit organizations and communities in areas such as the arts, education, housing, health, social welfare, and the environment. Event leaders identified local organizers who volunteered to turn the idea into action. The positive feedback from our colleagues as well as the various institutions, foundations and organizations was amazing and employees are committed to organize similar activities at least once a year. Volunteer activities took place in Poland, Switzerland, Spain, Italy, Russia, Germany, France and Belgium.

Dow’s London 2012 Stadium Wrap Recycled and Reused to Benefit Social Projects
Eighteen months ago, with the world’s main sports event about to take place in London, Dow presented an innovative and more sustainable solution to enable the completion of the Olympic Stadium as originally planned by its architects - the Stadium Wrap. This specialized wrap, fabric coated with technology from Dow Elastomers, addressed the rigorous performance and sustainability requirements. Recently, Dow concluded the installation of shades at the “Instituto Bola Pra Frente” (“moving the ball forward”) Institute, a social project that benefits hundreds of kids and teenagers at the Muquiço community, in Guadalupe, Rio de Janeiro. Panels have been installed as shades at the Institute’s headquarters to increase the available space for outdoor activities. This project was completed in partnership with ES Global, a company that joined forces with Dow for the wrap’s post-game reuse plan. Read more.

Unique STEM Education Opportunity for Area Elementary Students in Philadelphia
Recently 300 students attended a three-week Summer Engineering Experience for Kids (SEEK) camp for grades three to five. The camp was sponsored by The Dow Chemical Company Foundation and took place at Delaplaine McDaniel School, a Philadelphia elementary school, with a similar camp occurring at the Mackenzie School in Detroit, Michigan. The free, fun, hands-on engineering program was developed by the National Society of Black Engineers as a solution to the under-representation of African American students in the fields of Science, Technology, Engineering, and Math (STEM). Campers work in teams, using their knowledge to solve problems and create products while discovering the underlying math and science principles involved in these processes. Each week, campers undertake a new assignment, culminating with a presentation and design competition that their parents are invited to attend. Learn more about Dow STEM education initiatives. Read more.

Dow and Employees Donate Over 180,000 Euros for Removal of Flood Damage in Central Germany
In June and July, Central Germany was hit hard by a natural disaster. After heavy rainfalls the Elbe, Saale, White Elster and many other rivers flooded numerous villages and cities. Close to 100,000 people had to temporarily abandon their homes and many communities were without electricity or drinking water for days. The floods directly affected about 50 Dow employees, and municipalities near Dow sites suffered catastrophic damages, posing enormous challenges to the people, public administration and many small companies. Dow employees initiated a donation program collecting a total of 81,118 Euros from employees; Dow matched the amount with additional 100,000 Euros.

Banchang Development Plan Completion in Thailand
Dow Thailand partnered with the Population and Community Development Association, a leading non-profit organization for community development in Thailand, to conduct its first district development plan project. Dow has presented the complete Banchang district community development plan which features strategies to enable its communities to develop their hometown in a sustainable way which will benefit more than 60,000 people in the area. Plan development occurred over seven months including more than 20 community meetings and engaging more than 1,000 community members to gather input.

20th Anniversary Partnership Award from Junior Achievement China
Dow was recently honored with the “20th Anniversary Partnership Award” from Junior Achievement China, the world’s largest non-profit educational organization. This prestigious award is further recognition of Dow’s ongoing dedication to corporate citizenship. The award was presented to Dow at a celebration attended by over 300 guests, including representatives from the global business community and the non-profit industry, education leaders and experts, and media partners. Since 2008, Dow Greater China and JA China have worked together on the “Our City” Program, an award-winning, sustainability-themed course to promote business and sustainable development education among primary school students in China. The program has benefited over 67,000 students in ten cities across the country. Over 1,000 Dow volunteers have engaged in this program, contributing over 21,700 volunteer hours. As a long-term partner of JA China, Dow has made tremendous contributions to sustainability education, including donations, volunteers, and industry expertise. Read more.
EVOQUE™ Polymer Wins R&D 100 Award as Top Technology of 2013
R&D Magazine recognized EVOQUE™ Pre-Composite Polymer from Dow Coating Materials as a Top 100 technology product of the year in the publication's annual R&D 100 Awards. The technology from Dow is a new and exciting class of material for paint making that increases performance while reducing the need for titanium dioxide, the primary pigment providing light scattering in paint for hiding coverage on surfaces. In addition to higher hiding performance, EVOQUE Technology can enhance paint performance properties, such as exterior durability, stain resistance and removal, corrosion resistance, and tannin blocking. Reducing the pigment allows paint formulators to improve the performance and eco-profile of their paints and reduce exposure to volatile titanium dioxide pricing. A recent life cycle analysis indicates that paint formulations using this technology can lower the potential environmental impact of waterborne white and pastel architectural paints in ten key indicators. Read more.

New AOS Certified Technology Provides Sustainable and Effective Whole Room Sanitization
Dow recently announced the launch of Advanced Oxidation System (AOS) Certified technology for whole room sanitization. This new, revolutionary advancement will provide food and beverage producers with an effective and environmentally sustainable system for controlling surface and airborne pathogens. Using ambient air to generate ozone and water to produce non-condensing humidity, AOS Certified technology fills the atmosphere with a sanitizing vapor that goes deep into every corner, rapidly penetrating hidden areas – then fully dissipates, leaving no condensation or residue. Because the sanitizer is produced as needed, using AOS Certified technology does not involve shipping, storing or handling of chemicals. The sanitization systems fill an unmet need in the global food processing industry for a whole room sanitization technology that is designed to work quickly and safely to reduce dangerous bacteria which pose serious health risks to consumers and a great financial risk for food manufacturers. Read more.

100% PE Recyclable Stand Up Pouch Featured at PACK EXPO
Dow was proud to once again serve as title sponsor of this year’s “The Showcase of Packaging Innovations®” at PACK EXPO 2013 in Las Vegas, Nevada, U.S., where the award winning 100% PE Recyclable Stand Up Pouch from Dow Performance Packaging was on display. The product is an innovative solution for food packaging that offers a more sustainable proposition for recyclability. Dow, in partnership with a converter and brand owner, introduced the pouch in Latin America earlier this year and the design has since won several industry awards for its unique qualities. Read more.

Smart Solutions for Today
Our technologies enable our customers, and their customers, to develop more sustainable products and services.
Increasing Sustainability and Performance for Chrysler

Chrysler Group LLC is an automaker committed to charting a sustainable course for their vehicles and for the environment. As part of an effort to meet their sustainability goals, Chrysler teamed up with Dow to begin evaluating and qualifying BETAFOAM™ Renue for use in their facilities. BETAFOAM™ Renue is sustainable soy-based acoustical foam used to seal and manage noise inside vehicle body cavities. By replacing a petroleum based raw material with a soy based raw material in approximately 30% (by weight) of the formulation, customers can eliminate oil based raw materials which helps to stabilize costs. It also helps support Chrysler's weight reduction and fuel economy initiatives by providing a lower density material without sacrificing NVH and acoustical cavity sealing performance. BETAFOAM™ Renue enables a 25–30% reduction in the weight of foam used. The renewable chemistry has a lower viscosity, faster reactivity and a longer shelf life than traditional acoustical foam. All of these benefits can contribute to a shorter cycle time in the plant which is also a measurable cost savings for the customer.

Energy-Efficient and Easy-to-Install Ultra Air Barrier Wall System Launched

Dow recently introduced a new Ultra Air Barrier Wall System, the second solution of its kind from Dow. It is intended for use in block backup construction as well as on metal stud walls, and combines a layer of continuous insulation with air/vapor/water barriers in one easy-to-install package. Installation is more efficient than traditional construction methods as it requires far fewer steps. Dow products used in these advanced systems include: STYROFOAM™ Brand CAVITYMATE™ Ultra Insulation Boards, GREAT STUFF PRO™ Gaps and Crack Insulating Foam Sealant, STYROFOAM™ Brand Ultra SL Insulation and WEATHERMATE™ Flashing Tape. The new wall system helps architects, designers and contractors to meet new building codes and achieve a complete, energy-efficient building envelope. Read more.

China’s Top Membrane Component and Module Brand in China Water User Survey

Dow was recently named China's top membrane component and module brand in the 2012–2013 User Satisfaction Award in the Sewage Treatment Plant Equipment Category. This is the eighth consecutive year that Dow has won the award since it was launched by China Water in 2006. The selection process included more than 400 national and international companies. Unlike previous years, this year's selection features input from the main equipment users – managers and chief engineers of wastewater treatment plants at over 120 plants. With water scarcity getting increasingly serious, China's 12th five-year plan clearly emphasizes the importance of recyclable production along with water conservation. In some water-intensive industries, an efficient water treatment solution not only means more conservation of water, but can also help achieve cost efficient production.

dow.com/sustainability
Responsible Operations

Our infrastructure has a positive impact on our Company, our communities and ourselves. Our operations are a model for others, wherever we operate.

Top-Ranked Sustainable Company in Brazil
Recently, Dow was recognized as the top-ranked company in Brazil for sustainability in the Chemical & Petrochemical Segment. Annually, Revista Imprensa, a Brazilian magazine specializing in the journalistic-editorial segment, released a ranking of the Most Sustainable Companies. The magazine evaluates the exposure of the companies in the media in accordance with the criteria of the number of publications and their size related to sustainability coverage. The publications appeared in the most prestigious Brazilian magazines and newspapers. Dow’s overall rank advanced 50 positions in the ranking by jumping from number 67 to number 17.

Dow Automotive Systems Recognized by Renault for Sustainability and Corporate Social Responsibility
Dow Automotive Systems has been named a Supplier of the Year by Renault for sustainability and corporate social responsibility. In granting this award, Renault recognizes the efforts that Dow Automotive Systems puts into the sustainable development and production of products as well as the engagement commitment of its employees to the communities where they live and work. The company supplies Renault with adhesive solutions for glass bonding and safety applications. Criteria included compliance to European REACH guidelines and monitoring of carbon dioxide (CO₂) emissions. Read more.

Louisiana Economic Development Honors St. Charles Operations
Louisiana Economic Development recently honored St. Charles Operations with one of eight Lantern Awards for excellence in manufacturing and outstanding service to the community. The 47-year-old petrochemical manufacturing complex was recognized for its contributions to the Bayou Region – including an increase in hiring since 2010, an exemplary safety record, and significant funding for community support and outreach donations in three years. St. Charles Operations has been an Occupational Safety and Health Administration Star Site for more than 20 years, with an employee injury rate that is one of the lowest in the country. Read more.

Dow Named for 13th Time to Dow Jones Sustainability World Index
Recently, the Dow Jones Sustainability World Index announced its rating of Dow as one of the top performers in the global chemical industry – marking the 13th time Dow has received this recognition since the launch of the index. Dow was one of only nine chemical companies to be recognized in the World Index in 2013, representing sustainability performance in the top 10% of the industry. Additionally, Dow achieved a perfect 100% score in the Environmental Policy Management System category, leading the Materials Industry Group for the second year in a row. Read more.

dow.com/sustainability
Kepler Nominated to National Safety Council Board

The National Safety Council has appointed Dave Kepler, Dow executive vice president of Business Services, chief sustainability officer, and chief information officer, to serve on its Board of Directors. Founded in 1913 and chartered by Congress, the non-profit relies on research to determine optimal solutions to safety issues. In this role, Kepler will work with others on the Board to oversee the direction of Council activities, approve its policies and positions, and supervise management of its finances—all in ways that further its mission. That mission is an important one: to save lives by preventing injuries and deaths at work, in homes and communities and on the road through leadership, research, education and advocacy. The organization awarded Dow its 2012 Green Cross for Safety Medal in honor of a comprehensive commitment to safety excellence and the Robert W. Campbell Award in 2010.

Farmer Field Day Promotes Product Stewardship in India

Dow AgroSciences recently conducted three one-week intensive training programs in southern India to demonstrate our commitment to product stewardship and educate farmers on the importance of product stewardship. In June, more than 50 people—including farmers, village community leaders, State Agriculture Department officials, university professors and department scientists—participated in a field day organized at the village Karumathur, in Madurai District of Tamil Nadu. Each attendee received information regarding the safe handling of pesticides, and five sets of protective clothing were distributed to the farmers. In the last year, more than 2,000 farmers in 15 villages benefited from and spread awareness on the safe handling of pesticides and proper use of protective equipment as part of this program.

Chauny Site Opens New Organohalogen Compound Removal Plant

The Dow manufacturing site in Chauny, France, recently celebrated the formal opening of its new organohalogen compounds removal plant with local media, regional politicians and partner organizations. As part of the wastewater treatment station, this new plant eliminates the compounds present in the treated water before discharge into the Oise River. The new facility helps improve water quality along with chemical oxygen demand, reduces suspended matter and organic nitrogen, and improves the water’s color. The new facility reduces environmental impact and better protects the Oise River.

Kozub Selected as 2013 National Safety Council Rising Star of Safety

Jeff Kozub, EH&S Expertise manager of the Personal Safety Expertise Center, has been selected as a National Safety Council 2013 Rising Star. The organization’s Rising Stars of Safety Award presented by DuPont, showcases up-and-coming safety professionals younger than 40, who have a track record of demonstrating leadership, innovation and involvement in their organization’s safety culture; while promoting continuous safety improvement in the workplace. Among fierce competition, Kozub has earned a place as a member of the group’s ‘40 Under 40,’ Rising Stars of Safety class of 2013.
Goal Updates

Sustainable Chemistry

The 2015 Goal for Sustainable Chemistry is to increase the percentage of total Company sales to 10% for products that are highly advantaged by sustainable chemistry, as measured by Dow’s Sustainable Chemistry Index (SCI). The SCI is updated annually and involves assessing sustainability attributes of the Company portfolio at a detailed level. In 2012, the SCI increased from 21.8 to 22.0, and the portion of Company revenue that was from Highly Advantaged products grew to 7.1%, up from 4.8% as measured for 2011 – the largest ever year-over-year increase. A significant number of opportunities have been identified towards enabling additional products to be “highly advantaged,” and the team is working to further integrate these opportunities into the business strategies.

Addressing Climate Change, Energy Efficiency and Conservation

In the first quarter of 2012, Dow added an absolute Greenhouse Gas (GHG) commitment to our own Climate Change goal: Maintain GHG emissions below 2006 levels on an absolute basis. Dow will find ways to grow, but without growing GHG emissions. Related to this additional metric to manage our Dow’s footprint, Dow is investing in the development of a Net Impact Tracking Tool, a technique that will sharpen the Company’s focus on the full life-cycle benefits of our products. A sustainable energy future requires constant manufacturing efficiency improvement, while maximizing the contributions of products to improve efficiency and expand the availability of affordable alternatives. Energy is an enabler of global economic growth, and energy efficiency remains critical to meeting the world’s energy demands. Dow’s innovation engine is driving energy solutions that meet society’s needs and provide a competitive advantage to the Company and our customers.
Dow has reduced annual energy use by 20% since 2005; however, we do not expect to achieve the level of performance we anticipated when our Energy Intensity (BTUs/lb produced) goal was established. Dow's products can lead to significant energy reductions for our customers, and virtually every industry becomes more efficient through what we make and do. However, the Company is shifting toward higher-value, more technology-driven specialty products that are by nature more energy-intensive, and operating rates have also been reduced to match demand due to the global economic crisis, resulting in less efficient asset use.

By 2015, Dow has a goal to achieve an additional 25% improvement in Energy Intensity, with average Energy Intensity for the year 2005, adjusted for mergers and acquisitions, used as the basis for calculating performance. Dow’s goal for Energy Intensity for the full year of 2013 is 3,323 BTU/lb, or 80% of the value in 2005. Dow’s actual performance through 3Q 2013 was 4,160 BTU/lb, which is 101% of the 2005 baseline.

Dow's goal is to maintain Greenhouse Gas (GHG) emissions below 2006 levels on an absolute basis for all GHGs, thereby growing the Company without increasing our carbon footprint. Dow will continue to focus on managing Dow's footprint and delivering solutions to help customers manage theirs. For example, Dow’s insulation products contribute to greater energy efficiency, helping avoid millions of metric tons of GHG emissions per year.

Dow’s energy efficiency and chemical-management efforts have significantly reduced the Company’s GHG emissions footprint. As a result, Dow has prevented over 270 million metric tons of GHG emissions from entering the atmosphere since 1990, which is equivalent to the annual emissions of more than 16 million single family homes. The 2015 Goal objective to decrease GHG Intensity does not reflect Dow’s absolute emissions performance, nor is it consistent with transformational aspirations to provide solutions that enable a sustainable energy future.

Since 2003, Dow has reported to the Carbon Disclosure Project (CDP), a not-for-profit organization working to understand the risks and to drive GHG emissions reduction from business. In 2013, Dow reported on its 2012 GHG performance and commitment to being a solution provider to the Climate Change challenge. The report scored 90 out of a possible 100 points, highlighting Dow’s commitment to strong governance and complete disclosure through transparent Emission Reporting.
Avoided emissions resulting from the use of Dow products are important contributions to reduce the overall footprint of human activities. A Life Cycle Assessment documented that emissions saved by Dow insulation products are about seven times greater than total Company direct and indirect Kyoto and non-Kyoto GHG emissions. This calculation was made by quantifying the GHG emissions at all stages of the life cycle of the Dow insulation product and comparing these with the GHG emissions savings from the use of the insulation products in buildings and pipe systems.

Product Safety Leadership

At the end of 3Q, 519 Product Safety Assessments (PSAs) had been posted to Dow’s product safety website, which now account for more than 89% of Dow’s annual revenue. Additionally, all of Dow’s 222 High Priority chemicals are now covered by a PSA. We are on track to meet our 2015 Goal to have a Product Safety Assessment publically available for applicable Dow products.

PSAs are written for the lay public and cover topics such as basic hazards, exposure potential and risk management measures. They complement other product safety, handling and stewardship documents, which are part of the product responsibility package offered by Dow to strengthen relationships with communities and customers. Dow is dedicated to providing the public with accurate information and building trust as it uses technology to develop better products, and this holistic approach enables Dow customers and the communities in which Dow does business to stay informed about the Company’s products and the plants that produce them.
Omega-9 Oils Featured as an Innovation for Shared Value in Harvard Business Review

In a recent Harvard Business Review article titled “Innovating for Shared Value,” Omega-9 Oils from Dow AgroSciences were positioned as a premiere example of creating shared value and innovating to meet society’s needs while building a profitable enterprise. Since their launch in 2005, Nexera™ canola and sunflower seeds, used for making cooking oils, have become one of Dow’s best-selling product lines, displacing more than 1½ billion pounds of bad fats from American diets. The seeds and the oils offer many advantages: the seeds yield more than twice as much oil per hectare as soybeans, making them an attractive crop for farmers. The oils’ longer shelf and “fry” lives lower the operating costs of food manufacturers and food service companies. And, last but not least, the oils have lower levels of saturated fat than non-competing products and contain no trans fats. Read more.

Contributing to Community Success

Contributing to Community Success remains a high priority for Dow. As we move forward we continue to implement and share best practices with all Dow sites in an effort to achieve greater community success that benefits both Dow and the communities we live in.

The table below depicts community acknowledgement that Dow is addressing the needs identified by both the assessment and working directly with key stakeholders in their respective communities. Plans are underway for remeasures in Aratu, Brazil; Plaquemine, Louisiana; and Zhangjiagang, China in 2014.

Community Acceptance Ratings

![Community Acceptance Ratings Chart]

The graphic is a visual representation of the ongoing process of using Dow science and technology to find breakthroughs that can help make the world a better place to live. In June 2012, we announced Omega-9 healthy oils as Dow’s first Breakthrough to World Challenges. We have a robust pipeline of candidates for further Breakthroughs to meet our goal, and look forward to announcing more Breakthroughs as they meet the criteria.

**2015 Goal**

- Achieve at least three breakthroughs that will significantly help solve world challenges

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**Community Acceptance Ratings**

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**2015 Goal**

- Achieve individual community acceptance ratings for 100% of Dow sites where we have a major presence
Dow Science and Sustainability Education Center established at Saginaw Valley State University

Working with our communities gives us the benefit of addressing community needs, or “Dow’s rightful role,” while at the same time engaging in strategies important to Dow. Science, technology, engineering and math (STEM) education has always been a key focus for Dow.

Just recently, Dow collaborated with Saginaw Valley State University (SVSU) to establish the Dow Science and Sustainability Education Center. The center will be located on SVSU’s campus and will offer an educational experience for high school students and teachers by providing exposure to modern methods of research, analysis, and inspiration for students to study science at the college level. There will also be off-campus engagement through the “mobile science lab” that will visit schools throughout the region, giving students opportunities to participate in scientific based research. This collaboration establishes significant alignment towards Dow’s efforts in engaging students in the STEM fields and at the same time addresses Dow’s need to focus our rightful role on education.

Looking Ahead

Part of the Contributing to Community Success goal is to engage 100% of Dow sites in implementing the “Contributing to Community Success” best practices in their respective communities. As a company, we now have a greater understanding of how the community success process works and over time have perfected in a way that we now have the opportunity to engage all Dow sites.

We are currently active in piloting the Community Success Process Guide and instructional video at Dow’s Knoxville, Tennessee, U.S. site. This process guide outlines the steps needed for any Dow site to implement a robust Community Success process, regardless of its location, size or reach and we are hopeful that we will launch this tool in the upcoming year.

Local Protection of Human Health and the Environment

Dow leads the way across virtually every facet of environment, security, health and safety performance. In 1897, Dow was one of the first companies to introduce innovative protection equipment for workers. Today, Dow engages our neighbors through Community Advisory Panels and more. Dow’s “Vision of Zero” is a leadership attitude and a corporate culture that is committed to zero accidents, zero injuries and zero excuses.

Dow announced 2015 goals to achieve on average a 75% improvement of key indicators for Environmental Health & Safety (EH&S) operating excellence from a 2005 baseline. These indicators include personal injury/illness of Dow employees and contractors, loss of primary containment incidents, process safety, severe motor vehicle accidents, emissions and transportation-related incidents.

During the first 10-year goal period, the Company reduced the rate of injury and illnesses per 200,000 hours of work time by more than 80%, and during the 2005 to 2015 timeframe, the goal is to achieve a similar reduction in the rate. Excellent progress is being made: Dow workers are now 15 times less likely to experience an injury or illness than the U.S. manufacturing rate reported for 2010.

Injury and Illness Rate

At the end of 3Q 2013, the Injury and Illness rate was 0.19 per 200,000 hours of work. This is a 9% improvement compared to 2012. The 2015 Goal of 0.12 per 200,000 hours is a 75% improvement from 2005.
At the end of 3Q 2013, the company had experienced 136 Loss of Primary Containment incidents. When annualized, the implied total of 181 would outperform 2012 results, and is on track towards the 2015 Goal of 130 or fewer incidents. The 2015 Goal is a 90% reduction from 2005.

At the end of 3Q 2013, the company had experienced 5 Process Safety Incidents (PSIs). When annualized, the implied total of 7 incidents for 2013 would be a considerable improvement over an excellent performance in 2012, and remains below the 2015 Goal. The goal in 2015 is to be experiencing less than 25 PSIs. PSIs are classified in terms of the new Center for Chemical Processing Safety and American Chemistry Council PSI definitions.

At the end of 3Q 2013, the Injury and Illness Severity rate was 0.62 per 200,000 hours of work. This is 18% better than our performance in 2012 and is below our target for 2015. The 2015 Goal of 0.67 per 200,000 hours is a 70% improvement from 2005.
At the end of 3Q 2013, the Severe Motor Vehicle Accident (MVA) incident rate was 0.11 accidents per million miles driven, a considerable improvement over 2012 and remains better than our target for 2015. Severe MVA was not measured in the heritage Rohm and Haas Company. The 2007–2009 values represent the heritage Dow population.

At the end of 3Q 2013, Dow had experienced 21 Hazmat Transportation Loss of Primary Containment (LOPC) events, one classified as Highly Hazardous. When annualized, the implied total for 2013 is 28. Our 2015 Goal to reduce all Hazmat Transportation incidents to 14 or less is a 75% improvement from 2005.

By reducing the number of tonne-miles of Highly Hazardous materials, Dow reduces the chance of in-transit incidents that could impact communities and areas through which Dow’s products travel.

Annualized figures indicate that we would experience about 802 million tonne-miles shipped via road and rail. The goal for 2015 is to reduce these shipments to less than 705 million tonne-miles, representing a 50% reduction from the baseline in 2005.
Science for a Sustainable World

We only have one planet, with limited resources. So everything we do and how we do it matters. Dow is committed to minimizing our own footprint and to delivering solutions that help our customers and the rest of society do the same. The world needs solutions for big challenges like energy, climate change, water, food, housing and health. And Dow has some of the world’s best scientists and engineers dedicated to solving world challenges through innovation. When we do that, it’s not just good for the planet, it’s also good for business.

Dow remains committed to continuously improving its performance and publicly reporting its progress. Please visit dow.com for the latest Dow sustainability, business and performance news, and to share your comments or submit questions.