

COMMUNITY CONNECTION

Hemlock Semiconductor Operations LLC

Issue 20 • Spring 2017

The Spirit of Volunteerism



Mark Bassett, CEO,
Hemlock Semiconductor
Operations LLC

This year, National Volunteer Week was celebrated April 23-29. According to the 2017 Proclamation, more than 60 million Americans volunteered in 2015, giving an estimated \$185 billion in service to their communities. Seniors lead the way in time spent

Dear Neighbor:

In 1974, National Volunteer Week was established to recognize and celebrate the efforts of volunteers. Every year since then, a presidential proclamation has been issued to support our nation's commitment to compassion, collaboration and making a difference.

volunteering, adults age 35-54 had the highest rate of volunteerism, and teenager engagement continues to grow.

We see similar trends at the local level, right here in the Great Lakes Bay Region. The spirit of helping others not only makes our communities vibrant and strong, but also delivers intense personal rewards to the volunteers themselves. Speaking from personal experience, it feels GREAT to give back and make a difference – whether you are an individual, business or corporation like Hemlock Semiconductor Operations LLC.

In this issue of *Community Connection*, you'll see several examples of volunteerism, a value that our company and employees take seriously. Volunteerism is also our "Kids Helping Communities" theme for the 2018 Community Calendar Art Contest, in which students grades 6-8 are

– Continued on back page

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Annual Neighborhood Open House Gets High Marks



Approximately 135 residents in a four-mile radius of the Hemlock Semiconductor site attended two Neighborhood Open Houses in April.

The first event included a one-hour presentation from Abo Hami, director of Manufacturing & Engineering, while the second event included a presentation from Rob Kain, Quality Assurance & Analytical team leader. Both events also featured a one-hour tour for those who could reserve their space in advance.

The presentations reviewed what we manufacture, where our products are used, how we contribute to the local economy, and how we drive safety and protect the environment. These were followed by a short question-and-answer session.

In this way, neighbors are able to understand corporate activities, voice opinions and share ideas. ●

Arrowwood Elementary STEM Day Opens Students' Eyes

In February, more than 400 students in grades 3-5 at Arrowwood Elementary in Saginaw experienced a day of thrilling science demonstrations as part of the school's Science Technology, Engineering and Math Day – or STEM Day– program.

They were able to participate in a series of interactive demonstrations highlighting the many career opportunities in science and math. The demonstrations, led by Dr. Jon Cleland-Host, materials scientist at Hemlock Semiconductor, covered silicon

properties, light diffraction, the basic principles of spectroscopy, orders of magnitude from quarks to galaxies, electron microscopy and related topics.

"It's great to see so many kids energized about science and math!" Cleland-Host said. "As their excitement grew, I saw in their faces the hope for the future. I saw the promise of a new generation of scientists and innovators eager to tackle and

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Site Alarm Testing Update

In February, Hemlock Semiconductor implemented a few changes to its alarm testing schedule at the site. Site Building Evacuation, Muster Alarms and Tornado Alerts will no longer be tested the first Wednesday of each month, but rather the first weekend between 8 a.m. to 8 p.m.

Those same three alarms – in addition to the Site Evacuation Siren – will also be tested twice a year at Noon on the first Wednesday in January and July.

The Saginaw County 911 Community Warning Sirens are tested the first Wednesday of each month; we are aware of no changes to this schedule.

Please see the updated schedule in the table to the right.

Note: Starting Monday, May 22, the Dow Corning Healthcare Industries Materials Site (HIMS) will conduct a weekly emergency siren check at 10:55 am. This test

ensures that emergency systems are working properly at HIMS to protect employees and visitors on site. The test will last less than five minutes and should only be heard in the local vicinity of the HIMS plant. ●

ALARM / SYSTEM FREQUENCY SCHEDULE Hemlock Semiconductor Operations

ALARM/SYSTEM	FREQUENCY	SCHEDULE
Site Building Evacuation, Muster Alarms and Tornado Alert	Monthly	First weekend of the month between 8 a.m. and 8 p.m.
Site Evacuation Siren, Site Building Evacuation, Muster Alarms and Tornado Alert	Biannually	First Wednesday of January and July at Noon
Saginaw County 9-1-1 Community Warning Sirens	Monthly	First Wednesday of the month*: <ul style="list-style-type: none"> • May-September at 7 p.m. • October-April at Noon

*Time affects when phone, text and/or e-mail notifications are made.



KIDS HELPING COMMUNITIES

Annual Community Calendar Art Contest

The 2018 Community Calendar Art Contest, sponsored by Hemlock Semiconductor and Dow Corning Corporation, represents the eighth such contest since it was introduced in 2011. This year's theme, "Kids Helping Communities," encouraged students in grades 6-8 to draw ways kids can volunteer in the community. The contest, open from March 20-May 12 at middle schools in Saginaw and Midland counties, saw submissions from 19 schools.

Now in the judging phase, winning artwork will appear in the 2018 Community Calendar along with important safety information. Participating students can include this experience in their job resumes and college portfolios and possibly win one of these prizes:

- **First place winner** (one): \$200 gift card, with artwork featured on the cover of the calendar.
- **Second-place winners** (13): \$75 gift cards, with artwork featured inside the calendar.
- **Third prizes** (honorable mentions): \$25 gift cards, but their artwork is not featured in the calendar.

Winners will be announced in the fall. Winners, honorable mentions and their families will be invited to a special award ceremony at the Hemlock Semiconductor headquarters on Geddes Road this November. Not only will these students be recognized for their achievement, but so will the school having the best combination of entries based on judging scores. The winning school will be given a \$1,000 check to apply toward science and technology needs at the school. ●

Fire Training Helps First Responders

Neighbors May See Smoke

Emergency responders at Hemlock Semiconductor and neighboring fire departments are getting a unique opportunity to experience simulated fire events in staged fire training sessions held at the north end of the site from May through August.

Fire Training Prop

The company's Loss Prevention team purchased a special "fire training prop" to ensure that its Emergency Action Team – which includes 150 chemical operators trained as responders – meets all the training requirements set forth by the Michigan Occupational Safety and Health Administration (MIOSHA) and the National Fire Protection Association (NFPA).

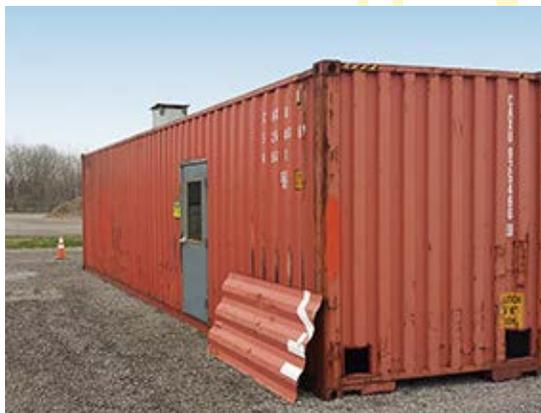
According to Corbin Berent, Loss Prevention training technician, "Ensuring all emergency responders are trained and ready for any situation is a top priority for us. Being able to have a real-life experience with a live fire is a huge advantage and will help drive success."

Benefits of Training

The Loss Prevention team requires three trained industrial firefighters on each shift to respond quickly to an emergency. The fire training prop will allow them to safely, quickly and efficiently mitigate emergencies at the site.

Training specifically includes:

- Utilizing personal protective equipment (PPE).
- Properly utilizing hand lines.
- Learning about fire growth and the different stages of fire.
- Extinguishing a fire and overhauling it to ensure the fire is completely out.



To drive community-wide collaboration, HSC is also offering training opportunities to neighboring fire departments.

"I am very pleased with the educational opportunity that Hemlock Semiconductor is offering to our local firefighters,"

said Fire Chief Michael Cousins, Thomas Township. "Our communities will truly benefit from this rare experience."

Smoke on the Horizon

During the sessions, neighbors may see smoke from the live-fire portion of the exercise in which small amounts of non-treated wood will be burned on a fire training pad to simulate an emergency situation. If you have questions, please call Hemlock Semiconductor at 989-301-5000. ●

Recycling Program Pays Off!

Once again, the Hemlock Semiconductor recycling program has paid off big, collecting more than 2.7 million pounds of scrap wood, cardboard, metal, paper and plastic in 2016, and more than 8.8 million pounds since 2014.

The recycling program, which has been underway for at least a decade, helps reduce environmental impact and improve operational efficiency.

According to Gary Putt, environmental manager, the company recycles for several reasons. "The program helps reduce waste going into landfills, which helps lengthen the life of that landfill," he said. "It also helps preserve other raw materials and natural resources because the recycled materials can be reused and converted into other products. Plus, we get some economic benefits by reducing disposal costs while receiving income by selling certain materials to recycling facilities."

The recycling program is a company-wide effort. Employees put the used materials in dedicated containers across the site, which are picked up by a service crew on a weekly

basis or shipped to a local recycling facility. These facilities include Midland Volunteers for Recycling, Waste Management's Mixer Recycle Facility in Saginaw, or Clinkston and Sons Scrap Metal in Saginaw.

"Many thanks are extended to our many conscientious employees, service crews and vendors who help support this truly wonderful cause," Putt said. ●

Recyclables Collected, Pounds

RECYCLABLES	2014	2015	2016	2014-2016
Scrap Wood for Fuel	149,120	357,260	246,680	753,060
Corrugated Cardboard	417,738	370,357	312,556	1,100,651
Recycled Metal	1,345,108	1,303,183	1,283,975	3,932,266
Office Paper	37,886	34,770	32,203	104,859
#1 and #2 Plastic	22,139	62,868	19,887	104,894
#4 Plastic	1,016,581	1,006,925	854,808	2,878,314
Total Pounds	2,988,572	3,135,363	2,750,109	8,874,044

Welcome New CAP Members!

Please welcome three new members to the Hemlock Area Community Action Panel (CAP): Craig Blower, Samantha McKenzie, Steven Witt and Ray Wohlfeil. CAPs reflect our commitment to Responsible Care® by providing a two-way forum to address issues and opportunities affecting Hemlock Semiconductor, Dow Corning Healthcare Industries Materials Site (HIMS) and the local community. Topics at CAP meetings range from discussing the environment, health and safety to economic growth.

Below is an overview of each new CAP member:

- **Craig Blower:** Blower is a resident of Thomas Township and the principal of Swan Valley High School. He is an active volunteer for several organizations, including FIRST Robotics, Thomas Township Parks & Recreation and the Swan Valley United Methodist Church. "I hope to facilitate a positive relationship between the school system and various community organizations," he said. "I want to work in collaboration with Hemlock Semiconductor and Dow Corning to ensure quality of life in Thomas Township."
- **Samantha McKenzie:** A resident of Richland Township, McKenzie is president and CEO of Hidden Harvest. She volunteers for many groups, including Directors of Volunteers in Agencies, SVSU "Pass the Pride" and the Saginaw Community Foundation Scholarship Review Committee. "I have an appreciation for the efforts that

Hemlock Semiconductor and Dow Corning take to contribute toward the vitality of the Great Lakes Bay Region. As a mother of three young children, I also want to have a clear answer to their questions about 'the city of lights' that we see at night as we travel between their grandparent's house and our home."

- **Steven Witt:** Witt is a principal at Yeo and Yeo PC in Freeland and resides in Thomas Township. He volunteers for several township organizations as treasurer of the Business Association, chairman of the Zoning Board of Appeals and member of the Kiwanis Club. "It is always helpful to get an outside opinion from people who have no vested interest with Hemlock Semiconductor or with Dow," he remarked.
- **Ray Wohlfeil:** A resident of Tittabawassee Township, Wohlfeil owns and operates a hardware store in Richland Township. He is engaged with various local enterprises such as the Youth Baseball program, Ducks Unlimited, Senior Citizens dinners, Hemlock Sawdust Days, the library and the Hemlock Farmers Market Pavilion. He enjoys hiring local youth for a job that is – for many – their first employment opportunity. "I'm interested in CAP because Hemlock Semiconductor has such a large presence in my community," he said.

We also appreciate the commitment of our outgoing member, Matt McRae, superintendent for Swan Valley Schools. ●

Getting Students Into Skilled Trades

Since 2015, Hemlock Semiconductor and Heritage High School have collaborated on a Heritage High Mentorship Program for students interested in pursuing careers in skilled trades. This program targets sophomores and juniors considered at risk for not completing their high school education.

The success rate is high. To date, 13 students have participated in the program and of those, one graduated from high school in 2016 and seven will graduate in June, including one student who chose a different career path and another who moved to a different school district. Five younger students are on track to graduate in the future.

HERITAGE HIGH SCHOOL GRADUATES, 2017	HEMLOCK SEMICONDUCTOR MENTORS
Mitchell Robinson Jacob Unger	Corbin Berent, Loss Prevention Technician
Hunter Fresorger	Deb Roditcher, Millwright
Jaycob Jimenez	Ryan Schultz, Pipefitter Welder Journeyman
Dallas Olivarez	Andrew Wendling, Millwright

“The connections that these students have with their mentors and the experiences they have had in the last three years have positively impacted their lives,” said Hannah Hill, school social worker. “Students are able to make connections with professionals in career fields they are interested in and to see first-hand what those careers entail.”

How It Works

The Mentorship Program matches a student interested in a skilled trade to an employee mentor experienced in that trade. Mentors meet with students at the school, and students also visit mentors in their work environment at Hemlock Semiconductor.

In March, students visited the site to see their chosen trade in action. They went on a tour of the site, met with mentors in their work area and conversed over lunch. Students enjoyed asking questions and getting some hands-on learning.

In one activity, for example, students interested in millwright trades had the opportunity to see and experience a typical chemical plant mechanical activity of rebuilding a pump. In yet another activity, students donned personal protective equipment and learned about fire safety.

An Eye-Opener

According to Peter Hammerschmidt, mechanical engineer, the program is an eye-opener to many students. “They get the chance to experience real-life technical trade opportunities in an industrial setting, and interact with people in industry – not just their mentors – to discuss actual job activities,” he said.

Hill concurs, adding that students are given a positive adult role model that can help guide them at a time of their lives where important decisions are being made.

“We currently have five seniors in the program who will graduate in June,” Hill added. “Each of these seniors have told me that they have set up future plans based on what they have learned from this program and their mentors. We are very appreciative of the time and effort Hemlock Semiconductor has put into this program.”

Skilled Trades Awareness

In addition to this mentorship program, the skilled trades group participates in other community events to promote careers in the trades. These events include Delta College Career Day, Hemlock High School’s Career Awareness and Alcohol/ Drug Prevention Day, Swan Valley Career Day, and several STEM-related programs. ●



▲ Student Hunter Fresorger learns how to rebuild a pump with Marty Neuenfeldt, pump specialist.

▶ Students Mitchell Robinson and Jacob Unger learn about fire safety with Corbin Berent, Loss Prevention technician.



New Hires Group Jumps on Christmas Train

The New Hires Group (NHG) at Hemlock Semiconductor often volunteers for a number of local activities in the region, from Saginaw's Mid-Michigan Children's Museum and East Side Soup Kitchen to Habitat for Humanity.

Another fun volunteer activity on their annual list of giving back is helping Thomas Township with the miniature Roethke Christmas Train, which takes kids through Roethke Park in Shields to celebrate the holidays.

For the past seven years, the NHG has been responsible for sprucing up the display located at the start of the tour – which features a Santa House, colored lights and more.



Team members spend several days setting it up in November so that it is ready for two weekends of fun in early December. Kids not only enjoy the train ride and decorations, but also enjoy a bonfire with hot cocoa.

The display has been so successful that Hemlock Semiconductor is increasing its budget to further improve the display in 2017.

"I love this event because it is Christmas – my favorite time of year – and it reminds me of all the light displays we'd see when I was a kid," said Matt Jacobs, manufacturing engineer. "It gives me a tradition to pass down to my daughter and other children in the community." ●

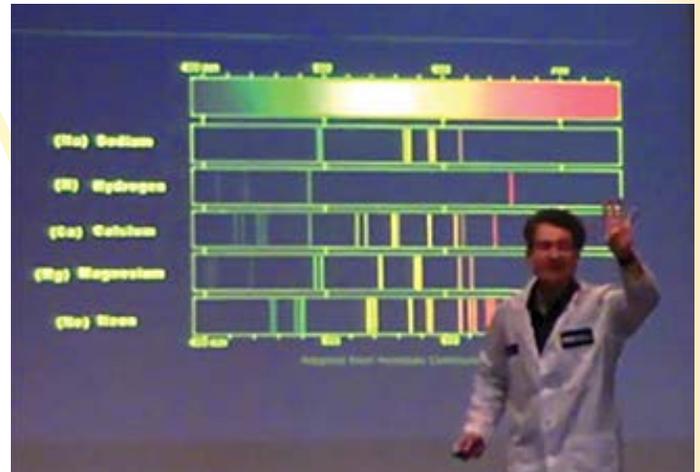
Arrowwood STEM Day *continued from inside*

solve the challenges of our world. It reminded me yet again that our kids hold incredible potential if we just take a moment to stir it to life."

Students had the opportunity to touch silicon, personally evaluate different light mixtures by splitting them into their spectral components, and learn about the electromagnetic spectrum – from radio waves through cosmic rays.

As a memento and reminder about the possibilities of science and math, each student took home a diffraction grating as well as a foam "silicon" sample.

This is the first time Arrowwood has experienced a STEM Day technology demonstration from Hemlock Semiconductor. ●



Teaching science to Arrowwood students.

Community Connection



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The Spirit of Volunteerism *continued from front page*

encouraged to submit artwork that illustrates ways kids can volunteer too.

If you are already a volunteer, I'd like to say "congratulations" on your dedication. If you are not yet a volunteer, I encourage you to give it a try. It can help you find a purpose and turn a passion into meaningful, constructive change.

As we head into the summer months, please stay safe, wear plenty of sunscreen and have fun! ●

Sincerely,

A handwritten signature in black ink that reads "Mark Bassett".

Mark Bassett, Chief Executive Officer