

## Spotlights

- **Feature Video:** We recently took a trip down memory lane and heard the stories of three Hemlock Semiconductor retirees. If you enjoyed the Memory Lane article in the last issue of Community Connection, you can now see the retirees share their thoughts live at [www.youtube.com/dowcorningcorp](http://www.youtube.com/dowcorningcorp).
- **Emergency Notification:** Hemlock Semiconductor funded an emergency notification system for residents of Saginaw County. If there is a community emergency related to weather or a chemical incident, Saginaw County 9-1-1 will activate its Community Notification System and sirens. Those who are registered will receive emergency notification updates via home phone, cell phone, text or email. If you would like to register to receive these updates, please sign up at [www.saginawcounty911.com](http://www.saginawcounty911.com) or call **1.877.670.3330**.
- **Festival Change:** The Freeland Walleye Festival date has recently changed. Mark your Community Calendar for April 29-May 1, 2011. Hope to see you there!
- **2nd Annual Community Calendar Art Contest!** Middle school students in three local school districts are invited to submit quality drawings that support the theme, *People Helping People*. The contest runs from March 28-April 29. Flyers are being sent home with students.



## CAP Donates to Local Projects

“Our communities have lost four young men and we pray there are no more. Let us never forget their sacrifice.” These words span the Fallen Soldier Memorial located at the Hemlock-Merrill VFW Post in Hemlock, Michigan, which was constructed thanks to a variety of community donations.

One donation for \$3,000 was from the Hemlock Semiconductor Corporation and Dow Corning Healthcare Industries Site. The two companies empowered the local Community Advisory Panel (CAP) to seek out community projects they felt were important to invest in. The only stipulation was to split the contribution between the two communities in which the companies are located – \$1,500 for projects in Richland Township and another \$1,500 for Thomas Township.

### Richland Memorials

In Richland Township, the CAP divided the donation equally between new books for the Raucholz Memorial Library and the Fallen Soldier Memorial.

“The memorial was built to honor all veterans that have ever served our country, but especially the four young soldiers from our own communities who recently gave their lives in the Middle East conflict,” said Mike Rose, Hemlock-Merrill VFW Auxiliary Member.

Since its dedication on July 31, 2010, the memorial has served as a place of reflection for the community. In addition to the statue, visitors can purchase commemorative bricks to honor veterans. Currently,



Left to right: Veterans Mike Rose and Duane Kruth

over 200 bricks honor veterans of World War II, the Vietnam War and the Korean War.

For Vietnam veteran and Hemlock-Merrill VFW Commander

Duane Kruth, the memorial serves a personal connection.

“One of the four men who died was my next-door neighbor,” said Kruth. “He was very well-liked and was always willing to help cut our grass and watch our dog when we were away. He will be remembered.”

### Thomas History

Meanwhile, in Thomas Township, the CAP donated \$1,500 to the History Tree Stump located at Roethke Park, which is estimated to be at 100 years old. Upon completion, the rings of the tree will identify local and national historic events.

CAP Member and Thomas Township manager Russ Taylor said the tree will be an informational and fun addition to the park.

“The tree is located in an area with play equipment for the children,” said Taylor. “The children can play on the tree while learning about the history of Thomas Township and the world.”

The history tree will be completed and sealed in June 2011.

The CAP will decide on future community projects in the spring of 2011.

## Clarksville Trainees Come to Michigan

Construction for Hemlock Semiconductor, L.L.C. located in Clarksville, Tennessee, is underway and going strong. The \$1.2 billion facility is focused on manufacturing polycrystalline silicon, the cornerstone material for solar cells.

Construction began in November 2009 and the on-site construction workforce is expected to peak at approximately 1,500 workers by mid-2011. The plant is scheduled to begin operations in the summer of 2012.

Staffing is underway, as is a specialized training program for production operators. These operators will be the backbone of the manufacturing workforce and will represent the largest number of the 500 full-time positions at the Clarksville site.

Part of the training program involves hands-on experience at the Hemlock site. Four waves of production operators will undergo 30 weeks of training. Each wave will spend three weeks in Hemlock followed by one week in Clarksville, then repeat that process until they graduate from training. Ultimately, 50 production operators will be ready to produce product, safely and effectively.

The first group of Clarksville trainees, including Roger Turnbaugh, arrived in Hemlock in early December. Roger first heard about the construction of Hemlock Semiconductor, L.L.C. on the news in Clarksville. While enrolled in a technology center to become a machinist, a teacher recommended that Roger apply



Roger Turnbaugh

for the job. Without any prior chemical-related experience, Roger chose to enter the new solar field as a production operator. “The training process here has been excellent,” said Roger. “It is very thorough and they want us to succeed so we will be confident and safe in our positions.”

The program combines hands-on training with classroom work in areas such as high-performing teams, creative thinking and safety. The production operator group trains five days a week for twelve hours a day, but Roger said the intense schedule is worth it.

“The opportunities for us here are phenomenal,” said Roger. “It can be tough being away from home at times, but looking at the big picture, the results will be great in the end. Having the Clarksville site completed and ready is definitely something to look forward to.” Roger said that since the first day of training, it is obvious that safety plays a key role in operations at Hemlock Semiconductor. “It is clear that for everyone here, not just the management, that safety is extremely important,” he said. “In the job I came from before they only talked about safety. Here at Hemlock Semiconductor, it is impressive how everyone follows and realizes its importance. Here, safety is a way of life.”

### Clarksville Fast Facts on Construction

58,554 Cubic Yards of Concrete Poured  
11,614 Tons of Steel Installed  
23,177 Feet of Pipe Installed

### Training for a Marathon *continued from front page*

This means, for example, educating governments and policymakers about things like cost-reduction roadmaps that can accelerate humanity’s march toward grid parity. It means working with government, academia and industry to propel technological innovation. And it means working together to reduce the cost structure of solar.

### Community Connection



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## COMMUNITY CONNECTION



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# COMMUNITY CONNECTION

Hemlock Semiconductor Group

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## Training for a Marathon



Jim Stutelberg  
Vice President of  
Marketing and Sales

challenging environment. I view this experience like training for a marathon – it has made us extremely fit, honed and prepared to compete in other markets too, like solar.

Hemlock Semiconductor Corporation has a rich tradition of being a leader in the polycrystalline silicon industry. We are, in fact, celebrating 50 years of having a strong reputation for quality and purity in the semiconductor market that few companies can match. While the needs of the semiconductor market have become more and more stringent over the years, Hemlock Semiconductor has managed to maintain its leadership position within that ever

### Amazing Growth

Growth in solar is tremendous. For the first 45 years that our industry existed, about 95% of global polycrystalline silicon production was used for semiconductors; now roughly 30% is used for that market and about 70% for solar. Hemlock Semiconductor has been expanding aggressively to meet growing demand for both industries, while ensuring quality, safety and sustainable results.

### Linking Arms

Going forward, we will continue to market our company in ways that build strong customer relationships, but will have an even stronger focus on collaboration. Because of the leadership role we play in the solar industry, we believe it’s our responsibility to link arms with customers and other groups to advance the solar industry as a whole.

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## Making Your World Go 'Round

Believe it or not, from the moment you wake up in the morning to when you fall asleep at night, polycrystalline silicon is making your world go 'round. Our products are used in everyday life, from ultra-sensitive electronics to clean, energy producing solar applications.

### Electronics

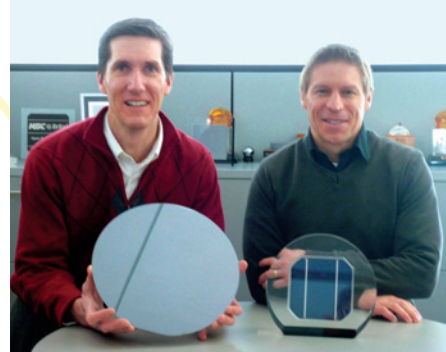
"Hemlock Semiconductor has built such a terrific name in the semiconductor industry because we specialize in producing polycrystalline silicon of the highest purity, which is critical to product performance," said Mike Kunselman, semiconductor product market manager. "Any electronic device has some computer chip in it, and roughly one-third of those chips are made from our material. Few people realize that it's the 'Hemlock Semiconductor Inside' concept...as computer chips are built using our product."

Since the first transistor in the 1950s, applications for high-purity polysilicon have grown exponentially across industries – from health care and communications to lighting, home appliances, entertainment, and transportation. "Your alarm clock, home thermostat, cell phone, laptop, iPod, coffee maker, dishwasher, and gaming system are all things that we take for granted every day. Electronics open your garage door, secure your home, navigate your car, read your water meter, tell your brakes when it's icy and even synchronize traffic lights. You can program your telescope to a specific star. My kids even talk to their grandparents on their little handheld video conferencing gadget – the Dick Tracy watch is now a reality! The list goes on and our polysilicon makes it all possible."

### Solar

While solar technology is younger than electronics, it is just as important and dependent on quality polysilicon.

"Solar is what will power the future, and we are playing a leading role in helping develop the products, technologies and markets necessary for success," said Greg Bausch, solar product market



Left to right: Mike Kunselman, Semiconductor Product Market Manager and Greg Bausch, Solar Product Market Manager

manager. "We are delving deeper into its potential uses and exploring partnerships with customers to ensure we are producing the right material for their needs. It's an exciting market, still on the cusp of driving radical change in how we bring energy to the world."

While the primary solar application for polysilicon is in electricity producing photovoltaic (PV) panels, PV is also used in a wide range of other products, from flashlights, watches and calculators to landscape lighting and LED traffic signals and signs. "Equally important is the ability to improve the quality of life by providing power to remote villages for basic needs like pumping water for irrigation and medical product refrigeration – villages that are impossible to connect to the traditional grid," said Greg. "It's an exciting convergence of sun and silicon – two abundant, natural resources that will enable a sustainable, environmentally friendly solution to global long-term energy needs. I can't think of anything else I'd rather be doing than advancing this market."

### PHOTO: Where's the Polysilicon?

Take a minute to circle products that contain high-purity polysilicon. Answers are under the photo.



ANSWERS: In entertainment unit: flat-screen TV, DVD player, stereo unit, and Nintendo Wii. In room: electric guitar, amp, handheld Nintendo DS, and Apple iPhone. On couch: laptop, cell phone, remote control, and solar charger for laptop. Inset: solar panels for house.

## The Spirit of Giving

by Jim Cross

Every year, Hemlock Semiconductor Corporation and its employees contribute time and money to the annual United Way Campaign. In 2010, we were honored to participate as the United Way Pacesetter for Saginaw County for the first time. Our employees exceeded Hemlock Semiconductor's goal by \$21,000, raising a grand total of \$171,000 for the Great Lakes Bay Region.

As chairman for the 2010 Saginaw County campaign, I had the privilege to visit with many United Way agencies. I saw, firsthand, people helping others who are going through some hard times in their lives. And I learned that it truly takes a large team of people



Hemlock Semiconductor employees, left to right, Emily Lincoln, Jim Cross, Leslie Orozco and Tracy Blaine gear up for the United Way Campaign



across the community to make a difference.

I've always said that as a leader, you are doing one of two things – making a difference or taking up space. Life is much more

than a job; it's also what we do as a neighbor, father, mother, volunteer, church friend, coach or whatever. It is our

responsibility to invest time in other people's lives to make our community, and the world for that matter, a better place.

Giving is not always easy or fun – it can be difficult to see others experiencing hardships. However, the reward comes when you see that you've made a small difference and that there's a multiplier effect of generosity. Every time you help one person or spread the spirit of giving, you are touching so many more people. It's a pretty powerful thing.

Hemlock Semiconductor Corporation has a strong team, made up of dedicated, giving employees who are committed to making the community a better place in which to live, work and play. Thank you for Living United!

For more information about the United Way campaign, view a video on <http://www.youtube.com/watch?v=n9z6C2tCRcw>. To see how Hemlock Semiconductor Corporation is giving back, visit [www.hscpoly.com](http://www.hscpoly.com) and click on "Community."

Jim Cross  
Hemlock Semiconductor  
Site Manager



Left to right: Greg Skufca, co-chair for Dow Corning United Way, and Aaron Howald, board member of the United Way of Saginaw County, bring out their Live United t-shirts

## Perspectives: Then Versus Now

### How did you join the Dow Corning and Hemlock Semiconductor family?

**Bonnie:** I started Dow Corning as a high school co-op, joining the company full-time in 1972. In 1995, I came over to Hemlock Semiconductor, which was great because I live in Merrill. I liked the small town and the family culture. Everyone pretty much knew everyone else, especially back then.

**Dan Rocha:** I joined Hemlock Semiconductor in 1980 as an operator after a friend told me about this place back in the woods that I didn't even know existed. I grew up in Merrill only eight miles away and thought I'd make money to go to college. I've been here ever since, advancing to a lot of different positions. It's a great environment for teamwork – like a family that keeps branching out.

**Dan Rice:** I started working here in 1980, transferring from the Dow Corning Medical Products Division.

### What is the biggest and "coolest" change you've seen at the Hemlock site?

**Bonnie:** I remember the company coming out of a downturn and not being able to ship product out fast enough. Before, we just had the prime polysilicon for electronics, but then we started dabbling in solar, and everything took off. Today, I see our product in so many applications.

**Dan Rocha:** The plant expansions both here and in Clarksville, Tennessee. I would have never thought we would have grown this large in an automotive industry state. We've done a great job getting our name out there in a good way. When I came in, there were 150 people and now there are more than 1,000.

**Dan Rice:** There are two key events that stand out. The first is in 1982 when we found ourselves in a very competitive global situation and had to reinvent ourselves across the board to survive. We did, developing radical new technologies that led to the joint venture with Shin Etsu Handotai and Mitsubishi Metals Corporation in 1984. The second event is the development of the solar industry on top of electronics, leading to rapid expansions since 2004. It's been truly incredible.

### What differentiates Hemlock Semiconductor from the pack?

**Bonnie:** It is definitely our commitment to safety and driving toward the purist, best quality material. Checks and balances are in place to ensure that happens.

**Dan Rocha:** Our safety culture is second to none, and so is the treatment of employees. I also value the many different challenges and opportunities I've been given throughout my career at Hemlock Semiconductor. My role has grown considerably throughout the years, and therefore I was given the necessary training to succeed.

**Dan Rice:** We're a high-tech company that has a very demanding and fast-paced environment, and there is never a dull moment! But in the

end, it's the people that make us different. We have a "can-do, failure is not an option" type of mentality and spirit. This allows us to develop the technologies now and for the future to deliver the best value products to our customers.

### What makes you feel good about the products Hemlock Semiconductor makes?

**Bonnie:** I know what lengths we go to, in order to make sure our product delivers. I feel confident that when we say it's great, the customer will say the same thing. Just look at our strides in purity and how much we've been able to improve!

**Dan Rocha:** Our products help the world find alternate means of energy and make improvements to the electronic devices. Most amazing is the evolution of solar panels throughout the years. Alternative energy is really taking off.

**Dan Rice:** Our products work and they provide the best overall value to our customers. When you use that principle to guide what you do every day, it really makes life tough for your competitors.

### What does "community connection" mean to you?

**Bonnie:** Early on, no one really knew who we were. But now, every time you turn around, you hear about all the community sponsorships. People know what we are all about. It makes me feel good and proud.



Dan Rice  
Applications Engineering Technical Service  
Senior Specialist



**Dan Rocha:** The employees at Hemlock Semiconductor support a lot of businesses, making the local economy stronger. But the company is also very involved in the community, reaching out to make a difference. We are not just "in" the community; we are a part of it.

**Dan Rice:** It means contributing to the success of the region and its people. Our role is very important to the well-being of the Saginaw-

Bay-Midland area, the state we live in and ultimately to our country as we do our part to ensure economic strength and security for the benefit of generations of Americans to come.

### What advice would you give to the company as it grows?

**Bonnie:** Keep doing what you are doing, and strive to make sure you do what you say you will – and do it even better. Continue to document everything, to pass our knowledge on from generation to generation, building on it to make us even stronger.

**Dan Rocha:** As the company expands, my advice is to maintain our safety culture and continue the care and involvement of employees. Everyone wants to go home healthy at the end of the day. A happy employee is a productive employee.

**Dan Rice:** Remember that when you are number one in your industry, if you do everything the same way and same pace next year that you did this year, you just fell behind. You always need to push ahead.



Dan Rocha  
Quality and Reliability Coordinator, Chlorosilane

