

COVER ART

Artist: Conrad Wardin

School: Nouvel Catholic Central High School

Grade: 10

Title: Advancement

Camera: Nikon D5200

Interpretation: This image celebrates the use of silicon and technology in education and as a tool for learning. This is meaningful to me as I plan to pursue a career in this field and think hands-on work with useful tools like silicon best prepares a student for their future.

www.hscpoly.com

HSC Information Line
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12334 Geddes Rd
Hemlock, MI 48626

HEMLOCK SEMICONDUCTOR



LIVING IN THE AGE OF SILICON



2025

Artist: Madeline Conlay

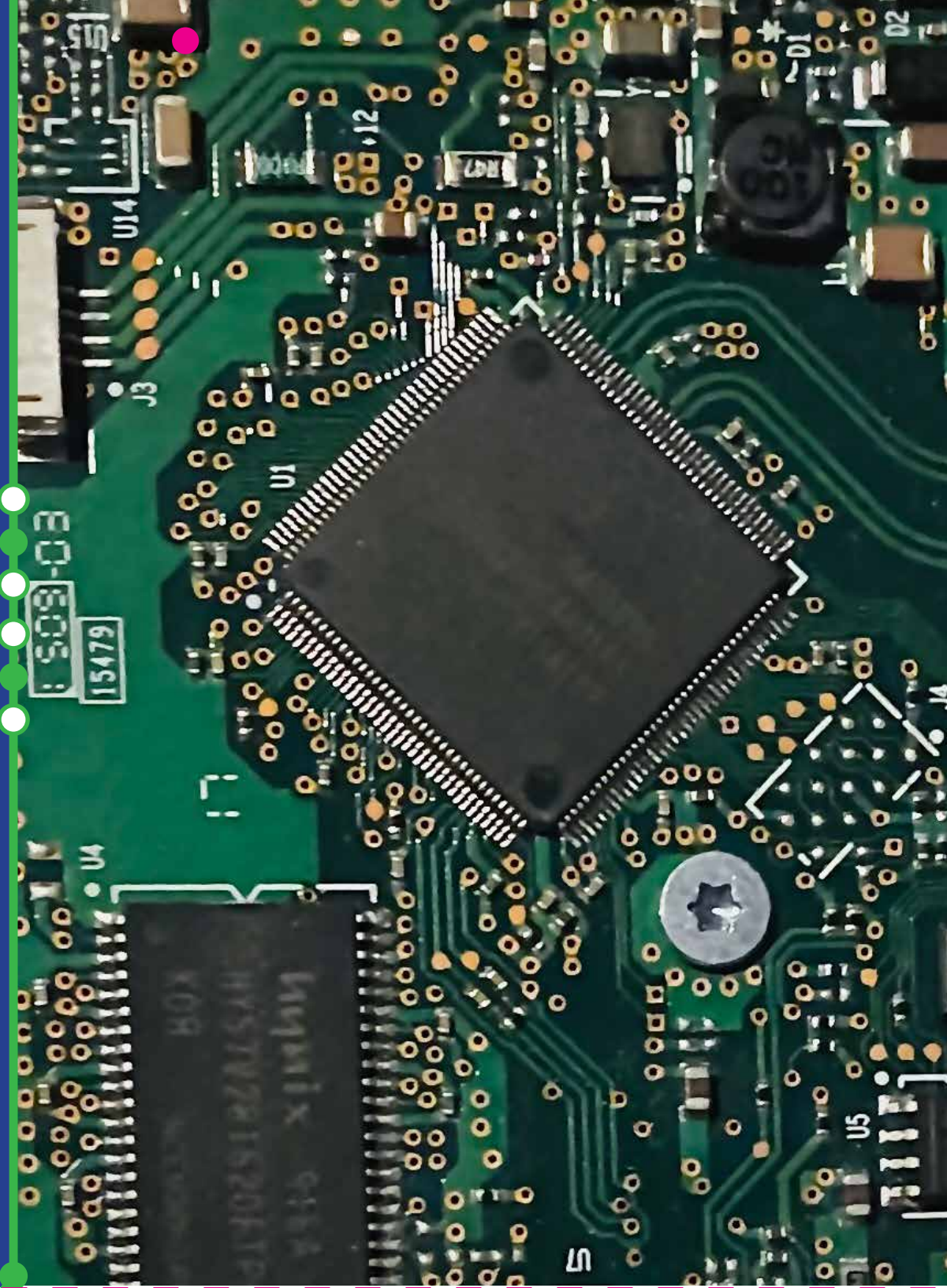
School: White Pine Middle School

Grade: 8

Title: The Powerhouse of Technology

Camera: Digital

Interpretation: My photo shows the age of silicon by a microchip. Microchips power almost all of technology, including our phones, computers, etc. We, as a society, almost always carry at least one microchip on us. They are almost built into us. My photo shows that along with the age of silicon.



LIVING IN THE AGE OF SILICON

Hemlock Semiconductor Operations is proud to sponsor the 15th Annual Community Calendar Art Contest. This year's contest shows how we are all living in the age of silicon. Polysilicon is the fundamental building block of the entire electronics and solar energy markets globally. It is why your cell phones, computers, and tech work.

We invited students in grades 6 to 12 among the Saginaw, Bay City, Midland, and Gratiot school districts to submit original photography supporting the theme: Living in the Age of Silicon. Students used technology to capture photos showcasing the importance of living in the silicon age, celebrating iconic companies, landmarks, and personalities of the Great Lakes Bay Region that have helped advance tech throughout our communities.

Students responded with an inspiring array of creative entries. Impressed by all of the entries, our panel of judges selected 14 works for their outstanding balance of quality, color, creativity, subject matter, and alignment with the theme for this year's calendar.

On behalf of Hemlock Semiconductor Operations and the Community Calendar Art Contest judges, we want to thank all of the students and teachers who participated. Thank you to the schools, teachers, parents, and young artists who helped make this calendar a unique and vibrant success. It's sure to brighten the walls of our homes, offices, and school rooms all year long in 2025.

**Congratulations
Nouvel Catholic
Central High School
for Winning the
"Best of the Best"
Award!**

Artist: Julia Louks

School: White Pine Middle School

Grade: 8

Title: Growing Up

Camera: iPhone 14

Interpretation: This photograph celebrates the age of silicone with technology such as cell phones and computers. The title of my photograph is "Growing Up" because it shows how we've grown up, through technology as well as through age. This is represented by the transition of toys into real objects. This theme is also represented with old phones and new phones, toy laptops and real laptops.

This photograph is meaningful to me because it represents the changes that happen as we get older, and how our lives have become different with the new developments of technology.



JANUARY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	1 New Year's Day Community Sirens*	2	3	4
5	6	7	8	9	10	11 National Human Trafficking Awareness Day
12	13	14	15	16	17	18
19	20 Inauguration Day Martin Luther King Jr. Day	21	22	23	24	25
26	27	28	29 Lunar New Year	30	31	1

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Genevieve Koepke

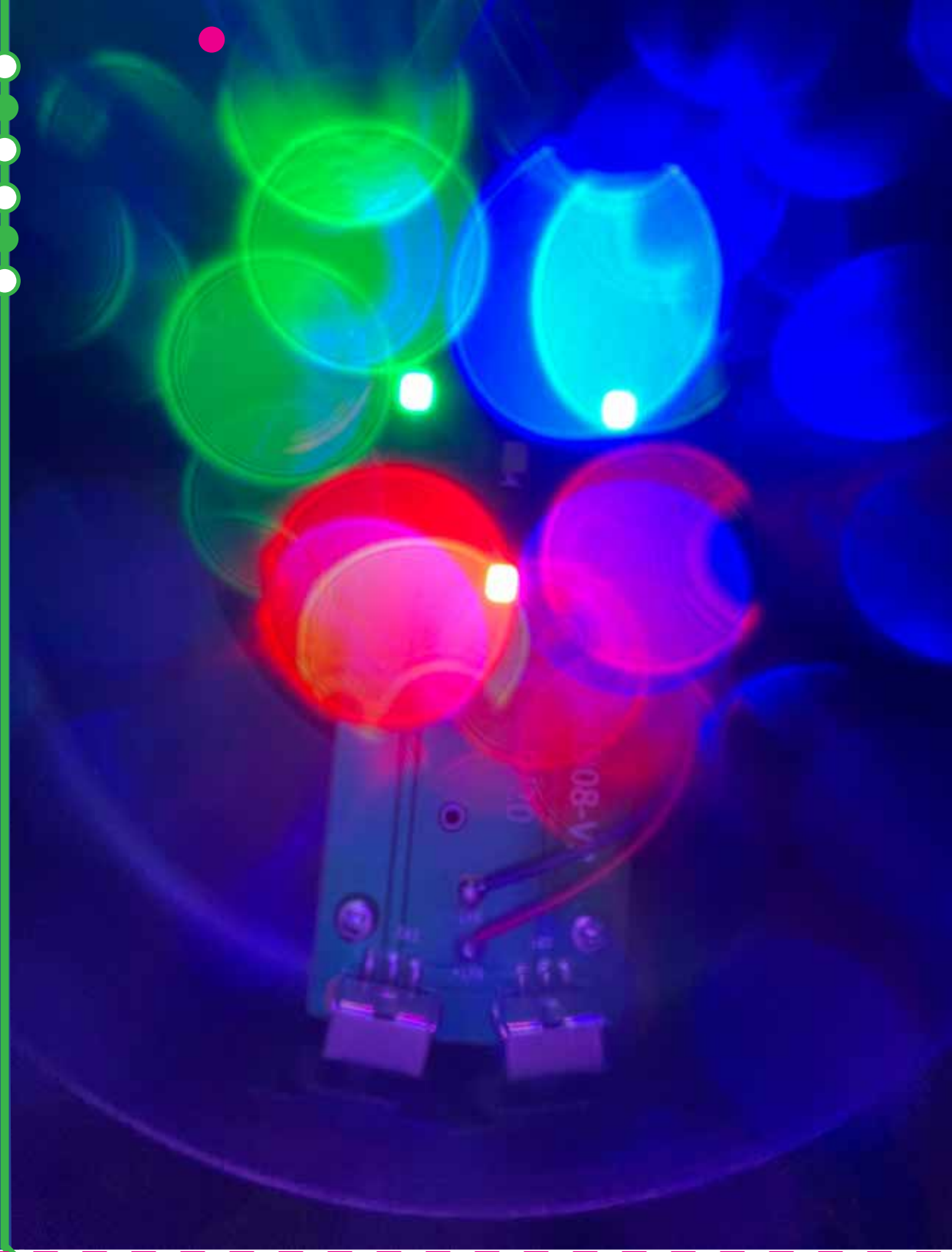
School: White Pine Middle School

Grade: 8

Title: Teamwork in Bay City

Camera: iPhone

Interpretation: Living in the "Age of Silicon" creates so many new opportunities, like being able to create this piece of art. I made this piece by using my LED projector and water.



FEBRUARY

BLACK HISTORY MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	31	30	31	1
2 Groundhog Day	3	4	5 Community Sirens*	6	7 National Wear Red Day	8
9	10	11	12 Lincoln's Birthday	13	14 Valentine's Day	15
16	17 Presidents' Day	18	19	20	21	22
23	24	25	26	27	28 Ramadan Begins	1

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Benjammin Vasquez

School: Saginaw Arts and Science Academy

Grade: 10

Title: The Izzone

Camera: iPhone 11

Interpretation: Living in the Age of Silicon is a term that is meaningful to my generation. When I look up on the internet what silicon is, it is in what we all use everyday, our cell phones. I appreciate having a cell phone because they can capture a moment in time, with just a single tap of a button. I captured a moment while attending a Michigan State basketball game as they played Minnesota on January 18th. These fans are part of the community called "The Izzone," named after coach Tom Izzo. This mean a lot to me because when I attend a Michigan State basketball and football game, I look forward to seeing the student section. I hope to go there after I graduate high school.



MARCH

WOMEN'S HISTORY MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
23	24	25	26	27	28	1
2	3	4 Fat Tuesday	5 Ash Wednesday Community Sirens*	6	7	8 Int'l Women's Day
9 Daylight Saving Time Begins	10	11	12	13	14 Holi	15
16	17 St. Patrick's Day	18	19	20 First Day of Spring	21	22
23	24	25	26	27	28	29
30 Ramadan Ends	31					

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Daniel Killingbeck
School: Hemlock High School
Grade: 12
Title: Gray Matter's Legacy
Camera: iPhone

Interpretation: The aspect that "Gray Matter's Legacy" celebrates is the idea of technology and learning. The reasoning behind the title is the name of Hemlock Robotics Team and FRC allows us to apply technology and learning into the real world.



APRIL

DIVERSITY & VOLUNTEER MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	1 April Fools Day	2 Community Sirens*	3	4	5
6	7	8	9	10	11	12 Passover Begins
13 Palm Sunday	14	15 Tax Day	16	17	18 Good Friday	19
20 Passover Ends Easter Sunday	21	22 Earth Day	23 Administrative Professionals Day	24	25	26
27	28	29	30	1	2	3

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Navia Garza

School: Carrollton High School

Grade: 10

Title: Silicon vs The World

Camera: iPhone 13

Interpretation: The late 20th century to early 21st century has been described as the Silicon Age. The era is also known as the digital age or informational age. All because of the element called silicon. My photo shows the use of silicon within a technology. It is a highly effective semiconductor and has conductive tendencies of metal acting as an insulator. Without silicon, technology would be nothing today. I also photographed this electric car because it motivates me to own a Tesla in the future.



MAY

ASIAN PACIFIC AMERICAN HERITAGE & MENTAL HEALTH AWARENESS MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	1	2	3
4	5 Cinco de Mayo	6	7 Community Sirens*	8	9	10
11 Mother's Day	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26 Memorial Day	27	28	29	30	31

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Isabella Neal
School: Freeland High School
Grade: 10
Title: Solar
Camera: iPhone 12 Pro Max

Interpretation: Silicon is used in the production of solar panels. By taking a photo of something that is made up of silicon it shows how it is used in our everyday lives. Solar panels supply power to many homes and help develop new technology.



JUNE

PRIDE MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 Community Sirens*	5	6	7
8	9	10	11	12	13	14 Flag Day
15 Father's Day	16	17	18	19 Juneteenth	20 First Day of Summer	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Theodore Heffron

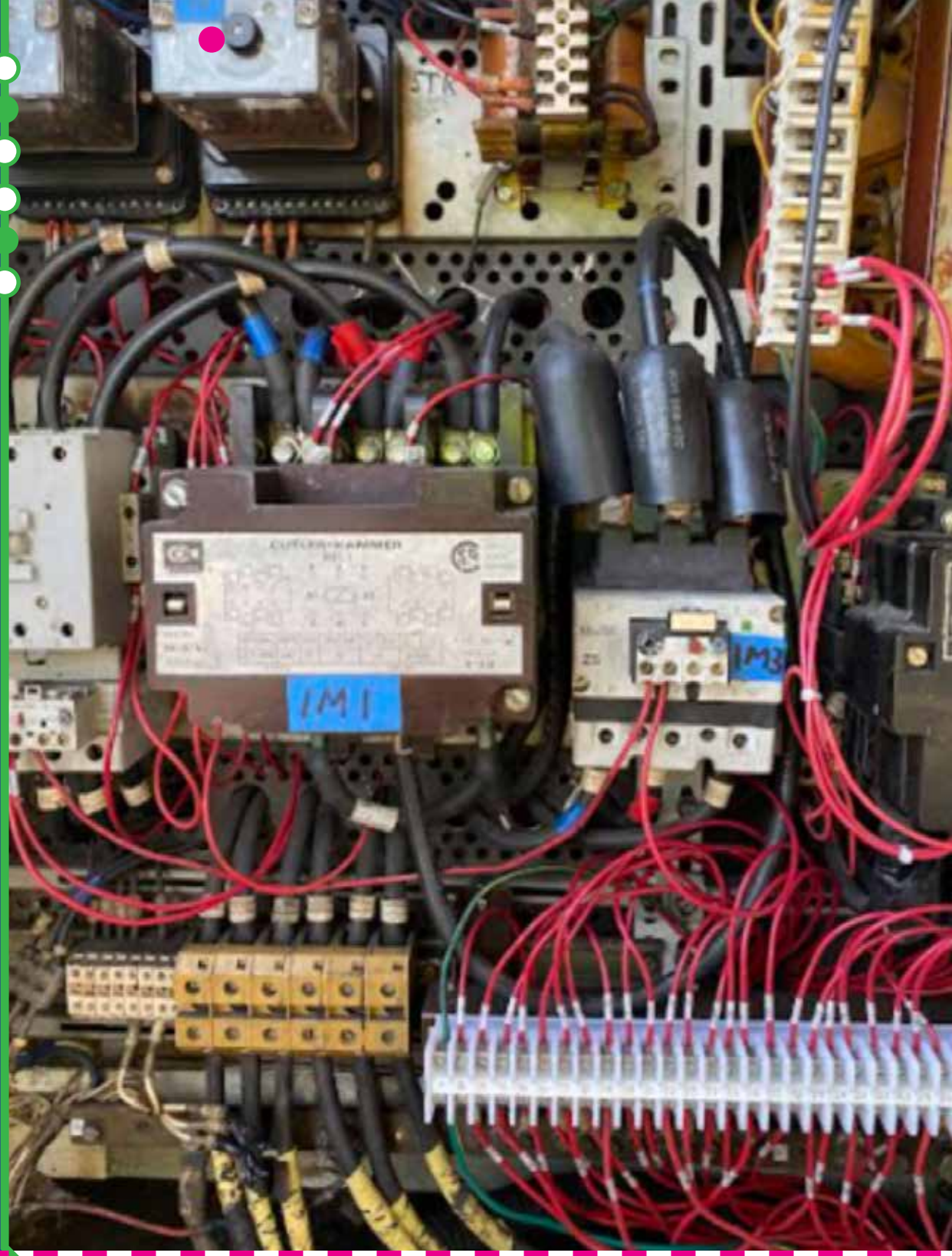
School: Freeland High School

Grade: 10

Title: Circuitry

Camera: iPhone 11 Pro

Interpretation: I chose to photograph the inner control panel of a machine in my dad's machine shop, because it supports the theme of living in the age of silicon. My photograph is named circuitry because it shows everything that goes on behind the scenes of a CNC machine. I tried to emphasize certain things such as the wires and other electrical components of the control panel that are critical to the functionality of the machine. Most of these electrical ports require silicon so without it, most machines in the world would not be functional. Circuit boards and circuitry are part of the foundation of the world in which we live in today.



JULY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	1	2 Community Sirens*	3	4 Independence Day	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Kyndal Taylor
School: Carrollton High School
Grade: 12
Title: Photography Unleashed
Camera: Canon EOS M50

Interpretation: Photography in the Age of Silicon celebrates the democratization of image making. With digital technology, especially silicon-based sensors in digital cameras, photography has become more accessible to a broader range of people. It's meaningful to me because digital cameras have made photography accessible to almost everyone.



AUGUST

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	31	31	1	2
3	4	5	6 Community Sirens*	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21 Senior Citizens Day	22	23
24	25	26	27	28	29	30
31		Women's Equality Day				

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Gabriella Rodriguez
School: Hemlock Middle School
Grade: 7
Title: Doing What We Do Best
Camera: Fuji Film X-T30

Interpretation: My photography celebrates the rise of STEM and technology-oriented education in the age of silicon. This new age supports growth in students, giving them confidence and proficiency in new skills. The pictured student is a programmer and is seen calibrating a custom vision system. Youth like him are the next generation. They give me hope for a bigger, brighter, and more advanced future.



SEPTEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	1 Labor Day	2	3 Community Sirens*	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22 First Day of Autumn Rosh Hashanah Begins	23	24 Rosh Hashanah Ends	25	26	27
28	29	30				

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Mairin Serier
School: Nouvel Catholic Central High School
Grade: 10
Title: Digital Age of Silicon
Camera: Nikon D5200

Interpretation: This photograph celebrates "Living in the Age of Silicon" by showing how students in this generation use technology in the classroom. Schools are slowly replacing paper and pencil with laptops and smart boards.

This is meaningful to me because I use this technology everyday to learn new things, take tests, and complete projects.



OCTOBER

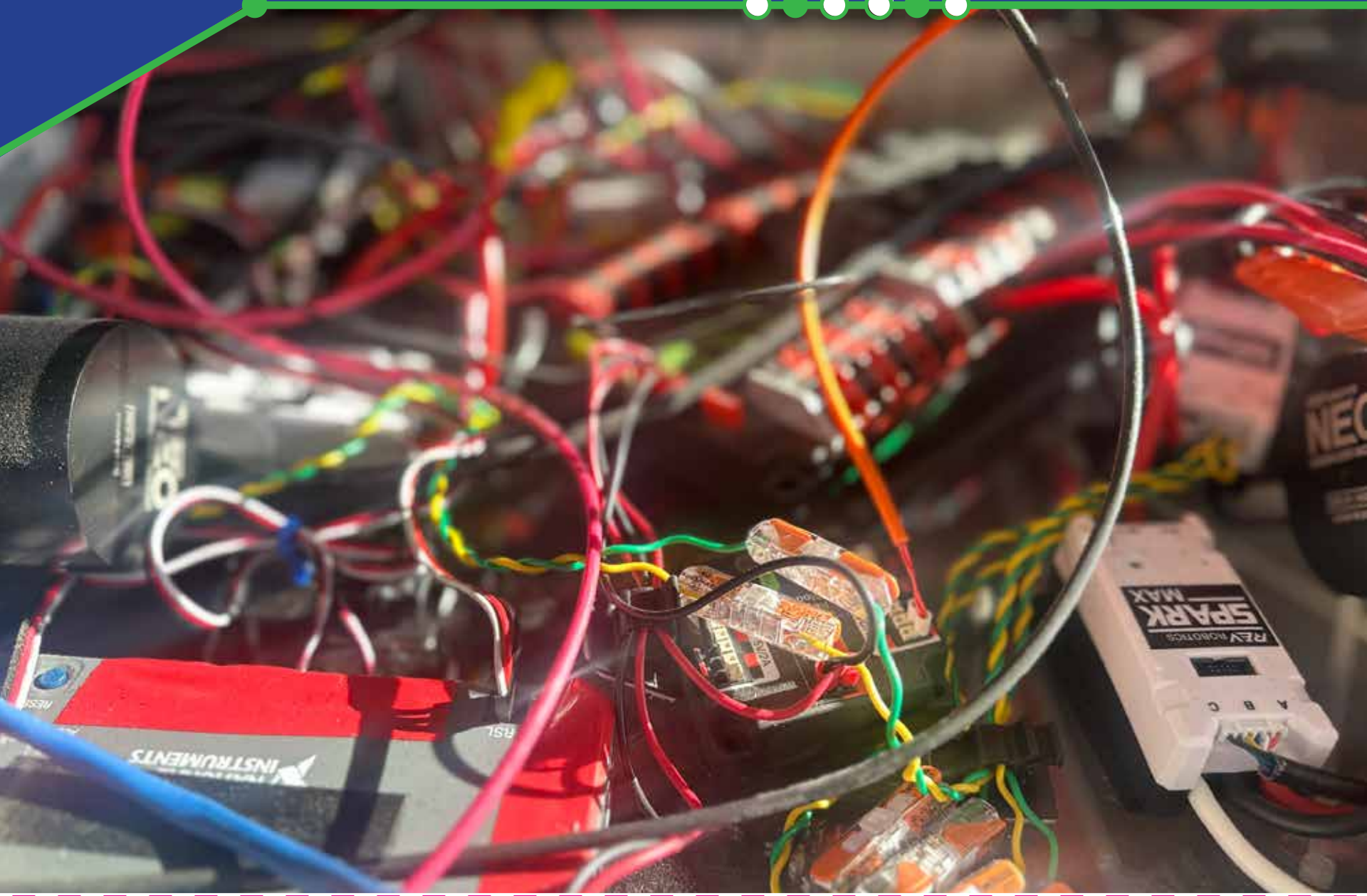
NATIONAL DISABILITY EMPLOYMENT & GLOBAL DIVERSITY AWARENESS MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	1 Yom Kippur Begins Community Sirens*	2 Yom Kippur Ends	3	4
5 National Fire Prevention Week	6	7	8	9	10	11
12	13 Columbus Day Indigenous Peoples' Day	14	15	16	17	18 Sweetest Day
19	20 Diwali Begins	21	22	23	24 Diwali Ends	25
26	27	28	29	30	31 Halloween	1

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Braylon Diggs
School: Carrollton High School
Grade: 12
Title: Colors of Technology
Camera: iPhone 14 Pro

Interpretation: My photo is meant to celebrate the minds of technology and how important they are to a machine. The light that is pointing at the wires is to show how important the wires are to the many pieces of technology that make it work so the machine can be controlled. The reason why the photo is on the focal point instead of the whole picture is to emphasize how the machine works. To me it shows the limitless possibilities for the technology in the future.



NOVEMBER

NATIONAL NATIVE AMERICAN HERITAGE MONTH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	1
2 Daylight Saving Time Ends	3	4 Election Day	5 Community Sirens*	6	7	8
9	10	11 Veterans Day	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30 Advent Begins				Thanksgiving		

*See alarm times on the Siren Alarms table at the end of this calendar.

Artist: Jordan Moten
School: Saginaw Arts and Sciences Academy
Grade: 12
Title: Digital Conductor
Camera: Samsung Galaxy S21

Interpretation: This photograph celebrates the digital and electronic aspects of the Age of Silicon. The photo is of my laptop keyboard, which has many aspects of silicon in it from the LED lights that illuminate the keys, to the computer chip inside of it. This type of photograph represents how so many things we use daily have silicon in them.



DECEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	1	2	3 Community Sirens*	4	5	6
7	8	9	10	11	12	13
14 Hanukkah Begins	15	16	17	18	19	20
21 First Day of Winter	22 Hanukkah Ends	23	24 Advent Ends Christmas Eve	25 Christmas Day	26 Kwanzaa Begins	27
28	29	30	31 New Year's Eve	1 New Year's Day Kwanzaa Ends	2	3

*See alarm times on the Siren Alarms table at the end of this calendar.

COMMUNITY SAFETY INFORMATION

Below, you will find helpful safety information on how to prepare for a potential chemical emergency. For a fast reference, please see the Quick Safety Tips section at the end of this calendar.

This information is also posted on our webpage at www.hscpoly.com, which features:

- Information about warning sirens
- Icons that signal community alert status
- Chemical fact sheets

Please familiarize yourself with this information at your earliest convenience.

SHELTER-IN-PLACE

What is "shelter-in-place?"

Shelter-in-place is a proven and effective method of protecting you and your family from the hazardous effects of chemical accidents, such as liquid chemical spills, vapor releases, and fires involving hazardous materials. Such accidents, while rare, could happen at any time and virtually anywhere. Possible sources of a chemical emergency include manufacturing facilities, chemical plants, warehouses, retail establishments, farms, agricultural product centers, gas stations, and transportation (such as trucks and rail cars).

How do I shelter-in-place?

1. When the Community Notification System is activated, immediately take your family and pets indoors.
2. Tightly close and latch all doors and windows.
3. Turn off all fans, heating, and air conditioning systems.
4. Close fireplace dampers and any other vents to the outside.
5. Gather your emergency supply kit (see the following page).
6. Go to an above-ground room (not the basement) with the fewest windows and close the door.
7. Stuff damp towels in the open space between door and floor.

8. If necessary, seal doors, windows, and any vents with duct tape and plastic sheeting.
9. If you smell chemicals, breathe through wet washcloths or towels.
10. Stay in the room and listen to the radio or watch TV for further instructions.
11. If told to evacuate, follow instructions given by emergency personnel.

When should I shelter-in-place?

You should follow shelter-in-place procedures whenever you receive notification of a chemical emergency. This may be broadcast over the radio or cable television, directly by emergency personnel, or by the Community Notification System (such as sirens or telephone alerts). You should also shelter-in-place when you see or smell any unusual chemicals in the air.

Why not evacuate?

While evacuations may be needed in rare situations, there would normally not be enough time to safely evacuate all affected individuals. Evacuation also endangers emergency personnel and individuals being evacuated by potentially exposing them to the chemicals in question.

What if I'm in a vehicle?

If you are inside a vehicle during a chemical emergency, stop the vehicle at a safe location as soon as possible. Do not attempt to drive home or to another location. Shut off the vehicle's engine, and follow the same basic shelter-in-place procedures. Roll up the windows, close vents, and turn on the radio for further instructions.

What about children at school?

If your children are at school or with a care provider, do not attempt to get them. Doing so could put you and them in danger. They are safest at school until the emergency is over.

Why an above-ground room?

Unlike a tornado emergency, basements are not recommended shelter locations for chemical accidents. Most chemicals are heavier than air and will accumulate in low lying areas, like basements. So, an above-ground room is the safest spot during a chemical emergency. If you do not have an above-ground room, a ground-level room will work fine. If possible, select a room on the side of the house farthest from the source of the chemical.

What do the siren sounds mean?

We recommend you visit our webpage for audio examples of on-site sirens and the community warning siren. Below are descriptions:

On-site siren: The Tornado Warning, Muster Alert, Site or Building Evacuations sirens mean that Hemlock Semiconductor Operations employees and contractors need to take action by either sheltering-in-place or evacuating a building/area. Even though you may hear the on-site sirens, they are meant for those groups only.

Warning sirens in the community: These sirens are activated by Saginaw County 9-1-1 and are used to alert the community in the event of severe weather or a chemical incident.

How will I know when it is safe to go outside?

Depending on the nature and location of the emergency, notification could occur in one of several ways: radio, television, directly by emergency personnel, or via the Community Notification System (such as sirens or telephone alerts).

Should I call 9-1-1 for information?

Authorities request that you do not call 9-1-1 unless you have a medical emergency or need immediate assistance. Non-emergency calls to 9-1-1 will tie up phone lines and dispatch personnel, preventing them from addressing true emergencies. You can call the Information Line at 989-642-2800.

What media sources will have emergency information?

Tune into your local media outlets for additional emergency information.

What should I have in my emergency supply kit?

It is recommended that you have supplies assembled for all types of emergencies, including chemical accidents. Suggested items for chemical emergencies include: bottled water, towels and washcloths, plastic sheeting, duct tape, scissors (for cutting plastic), a radio and flashlight, extra batteries, and a first aid kit.

When are the siren alarms/emergency systems tested?

Alarm/System	Frequency	Schedule
Site Building Evacuation and Site Evacuation Siren, 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*: • May-Sept at 7 pm • Oct-April at Noon

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

HSC SAFETY MINDSET

The employees at Hemlock Semiconductor Operations have a mindset of putting safety first and foremost, 24/7. It's a commitment to each other, our families, and the communities in which we live and work. As a core value, safety is actively promoted and practiced by employees, contractors, customers, and suppliers.

Our safety mindset includes our management's commitment to meeting the codes and requirements of Responsible Care®

- Implementation of behavior-based safety practices and a Zero Lost-Time Injury Focus
- Active contractor participation
- Community engagement, including Community Advisory Panels and close cooperation with emergency responders
- Transportation safety
- Process safety management
- Tight security



See www.hscpoly.com for details.

3 Quick Safety Tips: What to Do in a Major Emergency

Please review the following important safety information from Hemlock Semiconductor Operations.

1. EMERGENCY NOTIFICATION

- If there is a community emergency due to weather or a chemical incident, Saginaw County 9-1-1 will activate its Community Notification System and sirens (sirens tested first Wednesday of each month).
- If you have registered your contact information on the Community Notification System, you will receive safety instructions via a phone call, text message, or e-mail (depending on which numbers/e-mail addresses you registered in the system). You can register your contact information at www.saginawcounty911.com.

Note: You may hear other on-site testing sirens at noon on the first Wednesday of January and July.

2. ACTIONS TO TAKE

You should:

- Go indoors immediately.
- Stay calm.
- Close all windows and doors.
- Block drafts and stop ventilation fans.
- Listen to the local radio or TV.
- Periodically check the Information Line and our website for updates (see the phone number and web address listed above).

You should not:

- Do not pick up children from school (schools will handle emergencies) or elsewhere.
- Do not go outside; wait until you are told it is safe or the all-clear has been issued.
- Do not call emergency services unless you have a separate emergency.

All-clear:

- The all-clear communication will be delivered by Saginaw County 9-1-1.

3. WHERE TO GET MORE INFORMATION

- Watch a local TV channel or listen to a local radio station.
- Follow the instructions you receive from emergency personnel.
- Use the Information Line, 989-642-2800, to get updated incident information.

