

69th MICHIGAN ONSITE WASTEWATER CONFERENCE & EXHIBITS PRESENTS

" ONSITE 2020 - A CLEAR VISION FOR THE FUTURE "

JANUARY 14 - 16, 2020

KELLOGG HOTEL & CONFERENCE CENTER
MICHIGAN STATE UNIVERSITY
EAST LANSING, MICHIGAN



NOTE: AT THE END OF THE CONFERENCE THERE WILL BE A DRAWING IN THE AUDITORIUM FOR SEVERAL PRIZES

Up to 17-1/2 CSE (Continuing Septage Education) Credit Hours are offered at the conference through MSTA. Enrollment is required. Please contact Karlyn Wickham at the registration desk with questions.

** Note there will be an additional fee for non-MSTA members wanting a certificate of attendance and tracking by MSTA.*

CONFERENCE SPONSORS: MEHA, MOWRA, MSTA, MSU, EGLE



**MICHIGAN STATE
UNIVERSITY**

Biosystems and
Agricultural Engineering



ONSITE WASTEWATER CONFERENCE INFORMATION

ABOUT THE CONFERENCE – The conference is a three-day educational opportunity for the onsite wastewater industry, including local public health professionals, engineers, consultants, installation contractors, septic tank pumpers, and others interested in onsite wastewater management. Participants learn about the latest in onsite wastewater industry trends and approaches to onsite wastewater management.

LOCATION – The conference is held at the Kellogg Center, on corner of Michigan Avenue and Harrison Road, in East Lansing, Michigan. The Kellogg Center features spacious meeting facilities and excellent overnight accommodations. Parking in the ramp south of the Center is included in the registration.

EXHIBITS – Over 30 exhibitors will be in the Exhibit Hall, providing an ideal place to exchange ideas and discuss new products and/or services. Representatives from all major suppliers will be present.

REGISTRATION – Onsite registration is available, however you will incur a late fee in addition to the conference fee. The full conference (3-day) registration fee is \$150.00 per person. A one-day fee for either Tuesday, January 14th, Wednesday, January 15th or Thursday, January 16th is \$65.00 per person. Registration includes lunch and break snacks. REGISTRATION for the conference is REQUIRED!

The 2020 Onsite WW Conference will offer an all-day workshop on Tuesday, January 14th on Treatment System Design. This workshop will cover many factors that are important for those involved in the design, permitting, and construction of onsite systems. At the 2019 conference, a similar workshop was offered on many of the basics of onsite wastewater treatment design. This year's workshop will target some of the subjects from that workshop in greater depth, including equal distribution, passive drainfield treatment products, troubleshooting control panel and pump problems, designing for nitrogen removal, and treating high-strength wastewater. The presenters will also discuss several case studies where advanced treatment helped to solve onsite problems. **COST:** You must pay the cost of the conference plus an additional \$25 to cover the cost of materials. Please bring your laptop. Certificates of Completion will be provided to those completing the workshop. **THERE ARE NO CSE'S FOR THIS WORKSHOP.**

MSTA BANQUET – The Annual Michigan Septic Tank Association Banquet will be held on Wednesday evening, January 15th. You must have already pre-registered to attend the banquet. If you did not pre-register but would like to attend, there may be extra tickets available by checking at the registration desk prior to noon on Wednesday. The cost for MSTA members is \$10 (up to 2 tickets). Additional tickets and Non-MSTA Member tickets are \$30 each.



"Onsite 2020 - A Clear Vision for the Future"						
CSE Hours	TUESDAY 1/14/2020 Start Time	Track 1 LINCOLN ROOM	Track 2 AUDITORIUM	Track 3 Room 105-A & B	Outside	Vista Room
	7:45AM	REGISTRATION				
		Introduction Moderator: Dave Cotton	Introduction Moderator: Mark Scott	Introduction Moderator: Larry Stephens	Introduction	Introduction
1.00	8:30AM	The Onsite Crystal Ball - Where We Are and Where We Could Be Dave Cotton, Dale Ladouceur, Rob Wolfe & Regina Young [EGLE]	Safe Work Practices for Excavations and Confined Spaces Jim Getting, PhD CSP (Senior Construction Safety Consultant) [MIOSHA]	WORKSHOP Improved Techniques for Wastewater Treatment and Dispersal * Additional Fee <i>No CSE Credit Offered</i> Larry Stephens [Stephens Consulting Services, PC] Mike Stephens [SCS Systems, LLC]	Mobile Truck Simulator Justin Jahn [Michigan Truck Safety] 10-minute sessions <i>No CSE Credit Offered</i>	EGLE One-On-One 30-Minute Segments [schedule at registration desk] EGLE Staff
1.00	9:30AM	Septic Systems on Great Lake Coasts Kate Lederle [EGLE]	Federal & State Motor Carrier Regulations - Are You Compliant? Charles J. Culton [Michigan Truck Safety]			
1.00	10:30AM	Part 31 & Part 22 Groundwater Rules Explained! Christine Alexander [EGLE]	Let's Play the "Value Game." Learn What Impacts the Value of a Septic Business Curtis D. Kuttbauer Fred G. Manuel [Golden Circle Advisors]			
	11:30AM	LUNCH – BIG TEN ROOM (Provided)				
		Introduction Moderator: Dale Kwiatkowski	Introduction Moderator: Mark Scott	Introduction Moderator: Larry Stephens	Outside	Vista Room
1.00	12:30PM	The 1994 Michigan Criteria for Subsurface Sewage Disposal – How Far Have We Come Since 1977? Dale Ladouceur, Rob Wolfe & Regina Young [EGLE]	Integrity of the Septic Industry Jason Spangle [Esch Septic Service, LLC]	WORKSHOP Improved Techniques for Wastewater Treatment and Dispersal * Additional Fee <i>No CSE Credit Offered</i> Larry Stephens [Stephens Consulting Services, PC] Mike Stephens [SCS Systems, LLC]	Mobile Truck Simulator Justin Jahn [Michigan Truck Safety] 10-minute sessions <i>No CSE Credit Offered</i>	EGLE One-On-One 30-Minute Segments [schedule at registration desk] EGLE Staff
1.00	1:30PM	EGLE Groundwater Discharge Permits: Where We've Been and Where We Are Going Kristine Rendon [EGLE]	DOT Critical Driver Compliance Tony Cardamone [Concorde, Inc.]			
1.00	2:30PM	The 2013 "Draft" Michigan Criteria for Onsite Wastewater Treatment – Seven Years Later; The Future Is Here Dave Cotton, Dale Ladouceur & Regina Young [EGLE]	Portable Toilet Industry Brian Bost [Walex Products Company, Inc.]			
	3:30PM	Educational Sessions End Exhibits Open 3:00PM to 5:30PM - Light Buffet Dinner <i>(Vendor CASH Give-Aways throughout the afternoon)</i>				
	5:30PM	EXHIBIT HALL CLOSES				

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CSE Hours	WEDNESDAY 1/15/2020 Start Time	BIG TEN ROOM A			BIG TEN ROOM B&C	
		Joint Sessions				
	7:45AM	REGISTRATION				
1.50	8:30AM	Introduction Moderator: Joel Kwiatkowski			Exhibits Open 8:00AM to 3:00PM	
	8:35AM	2020 NOWRA Update (Keynote) James Bell [Past President NOWRA/Retired Executive Vice-President Bio-Microbics]				
	10:00AM	Break				
1.00	10:15AM	Fenner Nature Center Treatment and Reuse System Liz Roxberry [Fenner Nature Center] Larry Stephens [Stephens Consulting Services, PC]				
	11:15	BREAK IN EXHIBIT HALL 11:15AM to 12:00PM				
	12:00PM	LUNCH – BIG TEN ROOM (Provided)				
		Track 1 LINCOLN ROOM	Track 2 AUDITORIUM	Track 3 Field Trip [Must Register]	BIG TEN ROOM B&C	
		Introduction Moderator: Joel Kwiatkowski	Introduction Moderator: Greg Merricle	Introduction Moderator: Larry Stephens		
1.00	1:00PM	Advances in Microbial Testing for Freshwater Dr. Tami Sivy [SVSU]	Website Tools - Office Preview for Site Evaluations Dale Ladouceur & Regina Young [EGLE]	Fenner Nature Center Field Trip-1 <i>No CSE Credit Offered</i>		Track 4
	2:00 – 2:30PM	BREAK IN EXHIBIT HALL				
1.00	2:30PM	USDA Rural Development Financing for Rural Sewer Systems - [Andy Granskog (USDA)]	EGLE Q&A [EGLE Septage Program Staff]	Fenner Nature Center Field Trip-2 <i>No CSE Credit Offered</i>	Exhibits Open 8:00AM to 3:00PM CASH GIVE-AWAYS	Room 105-A & B
1.50	3:30 PM	MOWRA Association Meeting	MSTA Association Meeting <i>[1.50 CSE Hours]</i>			Soils Training and Texturing Workshop for Health Department Staff (Must Register – No CSE Credit Offered) 90-minute session: 2:30pm - 4:00pm Dave Cotton, Dale Ladouceur, Rob Wolfe & Regina Young [EGLE]
	5:30 PM	SOCIAL HOUR IN BIG TEN A				
	6:30 PM	MSTA BANQUET IN BIG TEN A (TICKETS REQUIRED)				

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CSE Hours	THURSDAY	BIG TEN ROOMS (Partitioned) Joint Session	
	1/16/2020		
	Start Time		
	7:45AM	REGISTRATION	
3.00	8:15AM	Introduction	
		Moderator: Joel Kwiatkowski	
		Round Table Discussions (6-sessions at 30-minutes each):	
		1. Health Care Reform Update - [Jason Clark (General Agency Company)]	
		2. Understanding Your Credit Card Processing Statement and What You Are Paying - [Tim Moran (Tim Moran Merchant Services)]	
		3. Pumper Stories - [Jason Spangle (Esch Septic Service, LLC)]	
		4. USDA Rural Development Financing for Rural Sewer Systems - [Andy Granskog (USDA)]	
		5. Ask the Pumper - [Dervin Witmer (Pump That Septic, Dig It Excavating)]	
		6. Why Watertight Septic Tanks Are Important - "The Heart of the Septic System" [Dan Wagner (Milan Vault)]	
		7. GIS Mapping - Bay County [Joel Kwiatkowski (Bay County Health Department)]	
8. System Selection Based on Site Needs and Code Requirements - [Matt Johnson (Infiltrator Systems)]			
9. Land Application Septage Management [Rodrigo Meirelles (Williams & Bay Pumping)]			
10. Tools That Can Help You Make Additional Profit in Servicing Septic Systems [Patrick Hogan (Spartan Tool)]			
11 Thinking About Buying or Selling a Septic Business...What You Need to Know [Curtis D. Kuttbauer Fred G. Manuel (Golden Circle Advisors)]			
12. Challenges and Issues with Installing Septic Systems in Bedrock [Patrick (Marc) Kelly (Tri-County Septic, LLC)]			
13. Portable Toilet Industry [Brian Bost (Walex Products Company, Inc.)]			
14. Water Infrastructure: The Interface of Natural and Built Environments in Urban, Suburban, and Rural Communities. [Dr. Steve Safferman (MSU)]			
	11:15AM	Break	
		Track 1	Track 2
		LINCOLN ROOM	AUDITORIUM
		Introduction	Introduction
		Moderator: Terry Gibb	Moderator: Jason Spangle
0.50	11:30AM	Putting Onsite Systems on Bedrock Patrick (Marc) Kelly [Tri-County Septic, LLC]	Innovative Septic System Accessories Gary Koteskey [Sim/Tech]
	12:00PM	LUNCH – BIG TEN ROOM (Provided)	
		Introduction	Introduction
		Moderator: Terry Gibb	Moderator: Jason Spangle
1.00	1:00PM	Harmful Algal Blooms: what Does the Science Say About Onsite Systems and HABs [Panel] Erick Elgin [MSU Extension] Dr. Susan Peters [Michigan DHHS] Aaron Parker [EGLE] Dr. Alan Steinman [Grand Valley State University]	Portable Restroom & Installer Panel Discussion Panel Discussion [2-Hour Panel] Ralph Bailey [American Rentals, Inc.] Travis Gemmell [Walnut Grove Excavating] Nick Sergeant [Sergeant's Septic and Excavating] Jason Spangle [Esch Septic Service, LLC] Dervin Witmer [Pump That Septic, Dig It Excavating]
1.00	2:00 PM	Decision Making at the Intersection of the Built and Natural Environments: Fostering a Learning Community [Panel] Dr. Steve Safferman [MSU] Terry Gibb [MSU Extension] Bindu Bhakta [MSU Extension]	
	3:00 PM	Moderators: Joel Kwiatkowski & Dan Milan	
		PRIZE DRAWING IN AUDITORIUM – MUST BE PRESENT TO WIN	

17.50 CSE-Hours

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

TRACK I - LINCOLN ROOM

“The Onsite Crystal Ball - Where We Are and Where We Could Be”

Tuesday 1/14/20 - 8:30AM to 9:30AM

Presented by:

Dave Cotton, P.E., Dale Ladouceur, R.S., Robert Wolfe & Regina Young, R.S. [EGLE]

During this session, attendees will gain insight of the current status of the onsite wastewater program in Michigan. While reflecting on the successes and ongoing challenges of the onsite programs, participants will also explore emerging needs and opportunities for improvement. What threats to the importance (or reputation) of onsite wastewater systems might exist? Attend this session to assist us as we envision what the future of onsite wastewater should or could be. Let's begin to form a clearer vision for the future.

Bio: Dave Cotton is a Professional Engineer working for the state since the spring of 2014. He graduated from Michigan Tech and has worked in the field of decentralized wastewater management his entire career. Dave has worked in many aspects of the onsite industry, including design, regulation, installation, manufacture, training, and operation & maintenance.

Bio: Dale Ladouceur is a Registered Sanitarian. He is employed with the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division, Environmental Health Programs Unit, and Onsite Wastewater Program and has been with the State for 19+ years. Before working for the EGLE, Dale worked for a district health department for over 12 years. Dale has a degree in Environmental Health from Ferris State College.

Bio: Rob Wolfe has worked at the State of Michigan for 25 years. He started in the Wetlands Determination Section of DNR, then went into the Groundwater Section, Solid Waste Section, Hazardous Waste Section, and finally landed in the Environmental Health Programs beginning in 2001 in the Marquette District. Rob is the regulatory consultant for the Well

Construction Section, Septage Program, Onsite Wastewater Program, and Biosolids Land Application Program for the Water Resources Division for all of the Upper Peninsula counties.

Bio: Regina Young is a Registered Sanitarian and works as an Environmental Quality Analyst in the Onsite Wastewater Program at the Michigan Department of Environment, Great Lakes, and Energy (EGLE). She has over 30 years of experience in Environmental Health serving residents and visitors at a local health department. As a recent addition to EGLE, Regina seeks to share her experience and enthusiasm in onsite wastewater treatment for the betterment of Michigan. She is dedicated to making a difference.

“Septic Systems on Great Lake Coasts”

Tuesday 1/14/20 - 9:30AM to 10:30AM

Presented by:

Kate Lederle [EGLE]

Michigan's Great Lake coastline is 3,288 miles long. Home sites along the coast are highly valued and much sought after. The Department of Environment, Great Lakes, and Energy is charged with regulating development in designated Critical Dune Areas encompassing 74,000 acres of public and private land, and High-Risk Erosion Areas identified on 235 miles of shoreline. Kate will discuss the challenges of permitting septic systems in the dunes and high-risk erosion areas. This presentation will appeal to those with coastal county responsibilities and interests.

Bio: Kate Lederle is the specialist for the Critical Dune Area and High-Risk Erosion Area programs for the Michigan Department of Environment, Great Lakes, and Energy. A native Minnesotan, she began her career on the shores of Lake Superior working with local landowners to stabilize moving sand on Park Point in Duluth. Before coming to Lansing, she worked with plants animals, and birds. She has lived and worked in northern Minnesota, the western UP, Las Vegas, and New Zealand – all equally wild. For the past seven years, Kate has worked the CDA and HREA programs. She earned her undergraduate and graduate degrees at

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

the University of Minnesota - Duluth and Michigan Technological University, respectively.

“Part 31 & Part 22 Groundwater Rules Explained!”

Tuesday 1/14/20 - 10:30AM to 11:30AM

Presented by:

Christine Alexander [EGLE]

Did you know that the authority to permit wastewater discharges to surface and groundwater in the state of Michigan is administered through Part 31 Water Resources Protection of the Natural Resources and Environmental Protection Act (NREPA)? The Michigan Department of Environment, Great Lakes, and Energy, Water Resources Division, Permits Section regulates the discharge of all types of wastewater to surface and groundwaters of the state. Local Health Departments have been delegated certain authority for specific sanitary sewage discharges based on flow volume. This presentation will focus on Part 31 of the NREPA and how the Part 22 Groundwater Quality Administrative Rules function to protect groundwater for 40% of the state’s population who depend on groundwater as their source of drinking water. We will walk through how EGLE can partner with Local Health Departments to assure protection of both public health and the environment.

Bio: Christine Alexander is the manager of Permits Section in the Water Resources Division with the Michigan Department of Environment, Great Lakes, and Energy. She oversees the issuance of state and federal wastewater discharge permits for municipal, industrial, and groundwater remediation sites. Prior to her work in Permits Section, Christine was a Senior Aquatic Biologist in the Surface Water Assessment Section specializing in bacterial contamination in surface waters of the state. She has a Bachelor of Science degree in Fisheries and Wildlife from Michigan State University and over 20 years’ experience in water quality issues.

Tuesday 1/14/20 - 11:30AM to 12:30PM

“The 1994 Michigan Criteria for Subsurface Sewage Disposal – How Far Have We Come Since 1977?”

Tuesday 1/14/20 - 12:30PM to 1:30PM

Presented by:

Dale Ladouceur, R.S., Robert Wolfe & Regina Young, R.S. [EGLE]

Michigan’s Criteria for Subsurface Sewage Disposal (Criteria) establishes standards for review and approval of sanitary sewage systems serving non-residential use sites. Since the original 1977 guidelines, Criteria has changed to be consistent with current technology. During this session, attendees will gain perspective in the purpose of the Criteria, and learn how and when the Criteria are applied, what regulatory requirements the Criteria do not cover, and where Michigan’s decision making under the Criteria has developed.

Bio: Dale Ladouceur, R.S. (Above)

Bio: Robert Wolfe (Above)

Bio: Regina Young, R.S. (Above)

“EGLE Groundwater Discharge Permits: Where We’ve Been and Where We Are Going”

Tuesday 1/14/20 - 1:30PM to 2:30PM

Presented by:

Kristine Rendon [EGLE]

We have learned in Michigan that one size does not fit all when it comes to treating various types of wastewater. The Groundwater Permits Unit of EGLE issues permits for a variety of groundwater discharges utilizing many treatment options. Wastewater strength varies based on facility type and activity. Today, we will discuss the different types of wastewater systems permitted by the EGLE Groundwater Permits Unit and we how we can work alongside Local Health Departments to protect one of Michigan’s most important resources, our groundwater.

LUNCH – BIG TEN A&B ROOM (PROVIDED)

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

Bio: Kristine Rendon is the Groundwater Permits Unit Supervisor for the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division. Before her current position, she worked as an Environmental Quality Analyst in the Onsite Wastewater Program with the EGLE Drinking Water and Environmental Health Division. She also has experience as an Environmental Health Sanitarian with two District Health Departments across the State of Michigan. She is a Registered Environmental Health Specialist through the National Environmental Health Association with a Bachelor of Science degree in Biology from Ohio Dominican University and a Master of Environmental Health degree from the University of Saint Francis.

“The 2013 ‘Draft’ Michigan Criteria for On-Site Wastewater Treatment – Seven Years Later; The Future Is Here”

Tuesday 1/14/2020 - 2:30PM to 3:30PM

Presented by:

Dave Cotton, P.E., Dale Ladouceur, R.S., & Regina Young, R.S. [EGLE]

In January 2013, the final draft of the Michigan Criteria for On-Site Wastewater Treatment (Draft Criteria) was completed. The Draft Criteria was created through a stakeholder process with the intent to replace the 1994 Michigan Criteria for Subsurface Sewage Disposal. The Draft Criteria provides science-based standards and treatment objectives based upon risk. During this session we will review key elements of the Draft Criteria and share insight as to how this resource has been used, its potential use, and its future.

Bio: Dave Cotton, P.E. (Above)

Bio: Dale Ladouceur, R.S. (Above)

Bio: Regina Young, R.S. (Above)

CASH PRIZE DRAWING IN EXHIBIT HALL

Tuesday 1/14/20 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways Available)

TRACK II- AUDITORIUM

“Safe Work Practices for Excavations and Confined Spaces”

Tuesday 1/14/20 - 8:30AM to 9:30AM

Presented by:

Jim Getting, PhD, CSP (Senior Construction Safety Consultant) [MIOHSA]

Excavation cave-ins and confined space hazards kill Michigan workers every year. These accidents are preventable. The safe work practices and the key MIOHSA rules for these operations will be presented. Emphasis will be given to describing straight-forward methods to comply and work safely.

Bio: Jim Getting has a Doctoral degree in Industrial and Organizational Psychology from Auburn University. He is also a Certified Safety Professional. Dr. Getting has over 20 years of experience as a safety professional. Jim has worked for MIOHSA’s Consultation Education and Training (CET) Division since 2007. He provides safety training and consultation services primarily in the southwest counties of Michigan. Prior to joining MIOHSA, Jim worked as Safety Director for several construction companies and worked as a safety professional in the Workers’ Compensation Insurance industry.

“Federal & State Motor Carrier Regulations - Are You Compliant?”

Tuesday 1/14/20 - 9:30AM to 10:30AM

Presented by:

Charles Culton (Safety Specialist) [Michigan Truck Safety]

Do you operate trucks and other commercial vehicles as part of your business? Do you know what motor carrier regulations apply to you and could you pass a state or federal motor carrier safety audit? This presentation will give you the basic information you need to comply with both state and federal motor carrier safety and regulatory requirements. Participants will receive a

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

copy of the Michigan Center for Truck Safety Guidebook and other related information.

Bio: Charles Culton has been a safety specialist for the Michigan Center for Truck Safety for the past 5 years, providing training on both state and federal motor carrier regulations. Prior to his employment with the center, Charles worked for Lansing Community College. From 1972 until his retirement in 2002, Charles was employed as a Motor Carrier Officer with the Michigan State Police serving in Detroit, Pontiac, New Baltimore, Paw Paw, and East Lansing Headquarters. Charles held the rank of Officer, Sergeant, Lieutenant, and Inspector (Asst. Division Commander). Charles is a graduate of Northwestern University School of Police Staff and Command. He was awarded the FMCSA Leadership Award and the Michigan Traffic Safety Commission's Award of Excellence.

“Let’s Play the ‘Value Game.’ Learn what impacts the value of a Septic Business”

Tuesday 1/14/20 - 10:30AM to 11:30AM

Presented by:

Curtis D. Kuttner, BCA (Senior Partner) & Fred G. Manuel (Senior Partner) [Golden Circle Advisors]

When it is time to transition or sell your septic pumping/portable restroom rental business, you will learn what is involved in establishing a value on the business, what is unique about this industry, and who the buyers are. Establishing a value can be very complicated, so we will help demystify the key components in business valuation and prepare you to identify “fake buyers” looking to take advantage of your years of hard work. Attendees will have a chance to PLAY the “Value Game” exercise with a chance to win a free Business Valuation.

Bios: Curtis Kuttner and Fred Manuel are Co-Founders and Senior Partners with Golden Circle Advisors, with offices in both Traverse City and Plymouth. Golden Circle Advisors is a business

intermediary and business brokerage advisory firm specializing in working with small- to mid-sized privately held businesses. GCA is focused on working with owners to provide a professional market valuation to position and market their businesses for sale. Using a comprehensive process, and by utilizing an extensive network, GCA is able to identify appropriate acquirers, including private equity firms, owners of privately held corporations, and individual investors. Over the past 4 years, Curtis and Fred have worked with several members of MSTA to sell their businesses, perform business valuations, and assist in the preparation of member businesses for sale.

LUNCH – BIG TEN A&B ROOM (PROVIDED)

Tuesday 1/14/20 - 11:30AM to 12:30PM

“Integrity of the Septic Industry”

Tuesday 1/14/20 - 12:30PM to 1:30PM

Presented by:

Jason Spangle [Esch Septic Service, LLC]

Jason will discuss building a high integrity septic industry. This industry is not a race to the bottom. It's not who can low ball who into oblivion. This industry is about upholding high standards, networking, and working with other colleagues within the industry. We are all in business to make money, but at what cost? How do we continue to move upward within our own business bringing integrity back to the forefront of the industry?

Bio: Jason Spangle is formerly a school teacher and has been working in the septic industry for the past 15 years, the last four years as owner of Esch's Septic Service in Mio, Michigan. Jason has served on the MSTA board for two terms and is currently serving as Secretary. He has a true passion for serving and helping others grow their businesses within the septic industry. Jason and his wife, Heidi, make their home in Mio, where they have seven children.

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

“DOT Critical Driver Compliance”

Tuesday 1/14/20 - 1:30PM to 2:30PM

Presented by:

Tony Cardamone (Vice President – Sales & Marketing) [Concorde Inc.]

DOT Critical Driver Compliance:

- DOT Correct Hiring Process
- DOT Driver Qualification File Management
- DOT Random Drug & Alcohol Testing
- DOT Post-Accident & Reasonable Suspicion

Testing:

- CSA Review
- MVR Monitoring
- DOT Certified Medical Examiner Medical

Exams:

- DOT Drug & Alcohol Clearinghouse
- DOT Driver Supervisor Training

Bio: Tony is the Vice President of Sales and Marketing for Concorde Inc., a 30+ year-old company, which is an industry leader in Driver Qualification File Management, Drug & Alcohol Screening, DOT Certified Medical Examiner Physicals and Employment Screening Services. Concorde is an Endorsed Partner for the following associations: the Solid Waste Association of North America (SWANA), the National Waste & Recycling Association (NWRA) and Pennsylvania Independent Waste Haulers Association (PIWHA). Concorde is also a member of: The Commercial Vehicle Safety Alliance (CVSA), Drug and Alcohol Testing Industry Association (DATIA) and National Association of Professional Background Screeners (NAPBS). Prior to joining Concorde, Tony spent 26+ years in the voice and data industry. He is also the co-owner of a real estate investment company and a telecommunications services company. Tony completed his undergraduate work at Villanova University. Tony collects vintage cars and enjoys playing the drums.

“Portable Toilet Industry”

Tuesday 1/14/20 - 2:30PM to 3:30PM

Presented by:

Brian Bost [Walex Products Company, Inc.]

In this session, Brian will discuss portable restrooms in 2020. In particular, he will address the art of providing unsurpassed service, marketing your brand, and making your employees and customers happier all while enhancing your business’s image and profit. Brian will take a question- and answer-based group interactive approach to help shape ideas and methodologies to more efficiently grow your portable / septic business for today and tomorrow. Come share, learn, grow, and laugh.

Bio: Brian Bost graduated from University of North Carolina Wilmington as a finance major. A sales professional, he has 15+ years’ experience, including 8 years with Walex Products Company Inc. Brian is responsible for year after year double-digit percentage growth for his assigned territory within the Walex Organization and has personally seen and consulted thousands of portable restroom operators and facilities as well as septic and waste organizations. Directly related to both sales and the portable/septic industry, Brian’s favorite quote is “they don’t care how much you know until they know how much you care.” Outside of work, Brian is a sports fanatic, and loves cars, his two dogs, and working out.

CASH PRIZE DRAWING IN EXHIBIT HALL

Tuesday 1/14/20 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided
(Vendor CASH Giveaways available)

TRACK III - ROOMS 105 A&B

WORKSHOP

“Improved Techniques for Wastewater Treatment and Dispersal”

* Additional Fee

Tuesday 1/14/20 - 8:30AM to 11:30AM

Presented by:

**Larry Stephens [Stephens Consulting Services, PC]
Mike Stephens [SCS Systems, LLC]**

At the 2019 conference a similar workshop was offered on many of the basics of onsite wastewater treatment design. This year’s workshop will target

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

some of the subjects from that workshop in greater depth; including equal distribution, passive drainfield treatment products, troubleshooting control panel and pump problems, designing for nitrogen removal, and treating high-strength wastewater. The presenters will also discuss several case studies where advanced treatment helped to solve onsite problems.

Bio: Larry Stephens holds a Master's of Engineering Degree in Environmental Engineering and has now spent over 50 years of his career studying onsite wastewater treatment while designing both large and small onsite wastewater systems. For the last 20+ years, he has also been a partner with Mike Stephens in SCS Systems LLC, a companion company that operates and maintains systems after installation. This operation and performance feedback, paired with problem troubleshooting, has been an invaluable asset to the system design experience. Larry and Mike have taught numerous workshops on this topic in recent years.

Bio: Mike Stephens has been involved in the operation and maintenance of septic systems for over 20 years. His company has grown from providing O&M services on single-family home septic systems to now operating 32 community systems, 30 commercial systems, and STEP/STEG collection systems for over 700 homes. SCS Systems now contracts for operation and maintenance in 22 counties across Michigan. Mike has served in leadership roles for MOWRA, NOWRA, and MWEA, and has given presentations at both state and national conferences. He is a certified wastewater operator with EGLE for both municipal and commercial wastewater treatment facilities.

** Note: No CSE Credit Offered for this Session*

LUNCH – BIG TEN A&B ROOM (PROVIDED)

Tuesday 1/14/20 - 11:30AM to 12:30PM

WORKSHOP (cont.)

“Improved Techniques for Wastewater Treatment and Dispersal”

** Additional Fee*

Tuesday 1/14/20 - 12:30AM to 3:30PM

(See above for course description)

** Note: No CSE Credit Offered for this Session*

CASH PRIZE DRAWING IN EXHIBIT HALL

Tuesday 1/14/20 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways available)

OUTSIDE – FRONT LOT

“Mobile Truck Simulator”

Tuesday 1/14/20 – 8:30AM to 11:30AM & 12:00PM to 3:30PM

** Note there is not CSE Credit for this Demo*

Presented by:

Justin Jahn (Safety Specialist)

[Michigan Center for Truck Safety]

This year, the Michigan Center for Truck Safety will be on site with the Mobile Truck Simulator. Participants at the conference will have the opportunity to get behind the wheel of the “Big Rig” (in the simulator) to learn more about their driving skills. The Michigan Center for Truck Safety is a non-profit organization dedicated to improving highway safety on Michigan's roadways, through comprehensive safety educational programs for Michigan's trucking industry. These services and programs are sponsored by the Michigan Truck Safety Commission (MTSC) and funded through a grant to the Michigan Trucking Association (MTA) Education Center, Inc. With a focus on state and federal trucking regulations, a skilled staff of safety professionals conduct a variety of programs for both truck drivers and management personnel. These programs provide training on a wide range of topics which include, but are not limited to: Drug and Alcohol Testing (FMCSR 40, 382), Qualification of Drivers (FMCSR 391), Hours of Service (FMCSR 395), Vehicle Inspection and Maintenance (FMCSR 396), Driver Performance Enhancement Training Programs, and Fatigue Management. Training programs offered by the Center are available (free of charge), through workshops,

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Tuesday Course Descriptions

January 14th – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

seminars, and a variety of media and interactive formats. In addition to the industry programs and services, the Center serves as a resource for Michigan's motoring public on sharing the road safely with trucks and on general highway safety.

CONFERENCE SPONSORS: EGLE, MEHA, MOWRA, MSTA, MSU

VISTA ROOM

“EGLE One-On-One”

Tuesday 1/14/20 – 8:30AM to 11:30AM & 12:30PM to 3:30PM

30-minute segments [schedule at registration desk]

Presented by: EGLE Staff



CASH PRIZE DRAWING IN EXHIBIT HALL

Tuesday 11/4/20 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided
(Vendor CASH Giveaways available)



Biosystems and
Agricultural Engineering

SAVE THE DATES!
**2021 Michigan Onsite
Wastewater Conference**
January 12-14, 2021

2020 Michigan Onsite Wastewater Conference

"2020 - A Clear Vision for the Future"



Wednesday Course Descriptions

January 15th – Courses run from 8:30AM to 3:30PM

Exhibits open from 8:00AM to 3:00PM

JOINT SESSION – BIG TEN ROOM

INTRODUCTION

Joel Kwiatkowski (MEHA)

Wednesday 1/15/20 8:30AM

“2020 NOWRA Update”

Wednesday 1/15/20 - 8:35AM to 10:00AM

Presented by:

James Bell (Past President NOWRA/Retired Executive Vice-President Bio-Microbics)

– [Keynote]

This presentation will provide an update on the past year’s accomplishments for NOWRA. It will also provide the goals and direction for NOWRA in 2020. Included in this presentation will be an update on lobbying accomplishments and direction. The presentation will also show how NOWRA Online Learning can benefit the State’s affiliation with NOWRA. Mr. Bell will be available to answer any questions on how the NOWRA affiliation is beneficial to the State.

Bio: James “Jim” Bell, Retired Executive Vice President of Bio-Microbics, holds a M.S. in Sanitary Engineering from the University of Missouri and a B.S. in Civil Engineering from the University of Missouri in Rolla, Missouri. Mr. Bell has worked for 35 years as a Process Engineer for Smith & Loveless, Inc. designing wastewater treatment systems. In 2008, he joined Bio-Microbics as Executive Vice-President to provide process engineering and regulatory expertise. Mr. Bell is currently the Past President of the National Onsite Wastewater Recycling Association (NOWRA), and the Vice-Chairman of the Joint Committee on Wastewater for the National Sanitation Foundation (NSF), which develops the NSF standards for small onsite wastewater treatment systems. Mr. Bell is also an active member of the Small Community Committee for WEF (Water Environment Federation) and is a member of the Captains of Industry (COI), an affiliate organization of the State Onsite Regulators Alliance (SORA).

BREAK

Wednesday 1/15/20 - 10:00AM to 10:15AM

“Fenner Nature Center Treatment and Reuse System”

Wednesday 1/15/20 - 10:15AM to 11:15AM

Presented by:

Liz Roxberry [Fenner Nature Center]

Larry Stephens [Stephens Consulting Services, PC]

Fenner Nature Center is an environmental educational facility located in Lansing just a short distance from the Kellogg Center. It has an estimated 60,000 visitors a year, including thousands of students from local schools and Michigan State University. In the fall of 2019, Fenner constructed a new teaching and meeting facility served with an onsite wastewater treatment system. This system is designed to treat the wastewater from the bathrooms in this new building to the quality necessary for reuse to flush the toilets and urinals. By reusing an estimated 80% of the water for flushing, this facility will be used to demonstrate the potential water and energy savings possible in similar applications wherever there are public restrooms. The presentation will discuss the benefits of such applications in both urban and rural settings with onsite systems.

Bio: Liz Roxberry has been the Executive Director of Fenner Conservancy since January of 2015, previously serving as Interim Executive Director and the Program Manager since joining the organization in 2013. Formally known as the “Friends of Fenner Nature Center,” Fenner Conservancy rapidly evolved from a friend’s group to the non-profit managing arm of the municipally-owned nature center property in 2009. Liz has a documented history of leadership in the fields of non-profit management, environmental education, and natural resource relations, and she brings more than a decade of professional experience to the consulting team. At Fenner Conservancy, Liz oversees all strategic planning, visioning and organizational capacity building, mission driven fundraising, budget management, project implementation, team cohesiveness, and human resource relations. Additionally, she acts as the primary liaison between the Board of Directors and the City of Lansing. Most

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Wednesday Course Descriptions

January 15th – Courses run from 8:30AM to 3:30PM

Exhibits open from 8:00AM to 3:00PM

recently, Liz guided her team through the organization's first major capital campaign and has broken ground on a new, combined education and community use building (complete in Fall 2019), quadrupling programmatic capacity.

Bio: Larry Stephens, P.E. (Above)

BREAK IN EXHIBIT HALL

Wednesday 1/15/20 11:15AM to 12:00PM

LUNCH – BIG TEN A&B ROOM (PROVIDED)

Wednesday 1/15/20 12:00PM to 1:00PM

TRACK I - LINCOLN ROOM

“Advances in Microbial Testing for Freshwater”

Wednesday 1/15/20 - 1:00PM to 2:00PM

Presented by:

Dr. Tami Sivy [Saginaw Valley State University]

Recent advances in methodology and instrumentation have allowed for more rapid determination of a waterway's health with regards to fecal contamination. In contrast to the culture methods currently used, which require 18 – 24 hour incubation times, DNA testing produces results within 3 hours of sampling. This allows for timelier beach closings and better protection of human health. Additional protocols have been developed and adapted in our lab to undertake Microbial Source Tracking (MST), which uses molecular techniques to determine the origin of fecal contamination, whether it be human, bovine, avian, or other developing markers. The talk will provide an overview of these cutting-edge methods and present some early results from MST, as well as address how the information learned can be applied to remediation efforts.

Bio: Dr. Tami Sivy joined Saginaw Valley State University in 2008 and is now a professor of chemistry. Originally from Allendale, Michigan, she was pleased to return to her home state after earning a Ph.D. from the

University of Colorado-Boulder. She and her family live on the Kawkawlin River, which is especially meaningful to her since much of her research is centered on the river's health. Her research started as a collaborative effort with the Bay County Health Department, with the focus on rapid bacterial testing of water. Recently they have undertaken various studies in Microbial Source Tracking (MST). The cutting-edge instrumentation for the rapid testing and MST is housed at the university, and students are involved in the collection and testing of the samples.

BREAK IN EXHIBIT HALL

Wednesday 1/15/20 - 2:00PM to 2:30PM

“USDA Rural Development Financing for Rural Sewer Systems”

Wednesday 1/15/20 – 2:30PM to 3:30PM

Presented by:

Andrew H. Granskog, P.E. (State Engineer)

This program presents the funding opportunities that USDA Rural Development offers for rural communities and homeowners to finance rural sewer improvements and/or replacements.

Bio: Andy Granskog has been the state engineer at USDA Rural Development for 20 years, with another 10 years in private consulting before that. He has been a registered professional engineer for 26 years and has Bachelor and Master degrees in Agricultural Engineering from Michigan State University.

MOWRA Association Meeting

Wednesday 1/15/20 - 3:30PM to 5:30PM

TRACK II - AUDITORIUM

“Website Tools - Office Preview for Site Evaluations”

Wednesday 1/15/20 – 1:00PM to 2:00PM

Presented by:

Dale Ladouceur, R.S., & Regina Young, R.S. [EGLE]

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Wednesday Course Descriptions

January 15th – Courses run from 8:30AM to 3:30PM

Exhibits open from 8:00AM to 3:00PM

This session will provide a greater understanding of how soil surveys and other web accessible information can be used as tools in preparing for site evaluations. The resources identified will also be helpful in more easily communicating review findings when site evaluations are conducted.

Bio: Dale Ladouceur, R.S. (Above)

Bio: Regina Young, R.S. (Above)

BREAK IN EXHIBIT HALL

Wednesday 1/15/20 - 2:00PM to 2:30PM

“EGLE Question & Answer Session”

Wednesday 1/15/20 – 2:30PM to 3:30PM

Presented by:

EGLE Septage Program Staff:

Jeff Antil (Program Analyst)

Dr. Ebi F. Burutolu (Soil Scientist)

Jeremy Hoeh (Environmental Health Programs Unit Supervisor)

Greg Merricle (Septage Program Coordinator)

Matt Rockhold (Program Technician)

Rob Wolfe (Environmental Quality Analyst)

The Q & A session presents an opportunity for haulers and others to ask questions of the Septage Program staff in regards to Part 117, the state law that regulates the servicing of septage waste in Michigan. The Septage Program has also posted answers to frequently asked questions in its website at: www.michigan.gov/egleseptage.

Bio: Jeff Antil has 3 years under his belt in the septage field.

Bio: Ebi is currently working for the Department of Environment, Great Lakes and Energy (EGLE), Michigan, as a Soil Scientist. He works with septage haulers, with emphasis on those that apply septage waste to authorized land sites. His interest is in educating septage waste haulers and farmers on ways of maximizing the use of a valuable resource, such as septage waste, in crop production. The goal is to improve the efficient application of septage waste and protect the environment. Prior to coming to EGLE, Ebi

was a High School Science Teacher, Agricultural Extension Officer, Agronomy Lecturer in a university of a foreign country, a Graduate Assistant in a major University here in the U.S., and an Environmental Health Professional in a County Environmental Health Department for several years, where he worked on environmental health issues.

Bio: Jeremy Hoeh has overseen the Environmental Health Programs Unit within EGLE since January 2015. This Unit houses the Campgrounds, Public Swimming Pools, Onsite Wastewater, and Septage Programs. He has been with EGLE since 2002, starting in the Air Quality Division. Jeremy is a licensed professional engineer in the State of Michigan.

Bio: Greg has worked for EGLE (through several name changes) for nearly 20 years. He spent 16 years with the Biosolids program prior to joining the Septage program in 2017. Greg has a B.S. in Biology from Alma College, and a M.S. in Hazardous Waste Management from the College of Engineering at Wayne State University.

Bio: Matt Rockhold has worked for the State of Michigan since 2000. He worked with the Department of State from 2000-2012. His last job with the Department of State was an investigator of complaints of dealerships, repair facilities, and mechanics. Matt started with EGLE in 2012. He has enjoyed being the registration technician for the Septage and Onsite Wastewater Program.

Bio: Mr. Wolfe has worked for the State of Michigan for over 25 years. He has worked in the solids waste, hazardous waste, and scrap tire programs under the Materials Management Division, the biosolids and groundwater programs under the Water Resources Division, and environmental health programs (e.g. well construction, septage, onsite) under the Drinking Water and Environmental Health Division. His experience within each of these programs allows Mr. Wolfe to assist in addressing many of the common problems found in the septage and onsite programs.

MSTA Association Meeting

Wednesday 1/15/20 - 3:30PM to 5:30PM

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Wednesday Course Descriptions

January 15th – Courses run from 8:30AM to 3:30PM

Exhibits open from 8:00AM to 3:00PM

TRACK III

Meet at Registration Desk

“Fenner Nature Center Field Trip-1”

Wednesday 1/15/20 - 1:00PM to 2:00PM

BREAK IN EXHIBIT HALL

Wednesday 1/15/20 - 2:00PM to 2:30PM

“Fenner Nature Center Field Trip-2”

Wednesday 1/15/20 - 2:30PM to 3:30PM

Presented by:

Liz Roxberry [Fenner Nature Center]

Larry Stephens [Stephens Consulting Services, PC]

Bios: Above

TRACK IV - ROOM 105 -A&B

“Soils Training & Texturing Workshop
for Health Department Staff”

Wednesday 1/15/20 - 2:30PM to 4:00PM

Presented by:

Dave Cotton, P.E., Dale Ladouceur, R.S., Robert Wolfe & Regina Young, R.S. [EGLE]

Proper soil identification as it relates to site suitability and system design is critically important to local health department staff working in an onsite wastewater program. During this session we will review soil terminology, soil characteristics, and share resources available to assist local health department staff in soil evaluations. The session will include soil texturing exercises, so be ready to get your hands dirty.

Bio: Dave Cotton, P.E. (Above)

Bio: Dale Ladouceur, R.S. (Above)

Bio: Robert Wolfe (Above)

Bio: Regina Young, R.S. (Above)

EXHIBIT HALL CLOSING AT 3:00PM

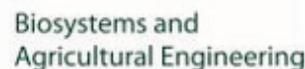
SOCIAL HOUR – BIG TEN A CASH PRIZE DRAWINGS

Wednesday 1/15/20 - 5:30PM to 6:30PM

MSTA BANQUET – BIG TEN A (TICKET REQUIRED)

Wednesday 1/15/20 - 6:30PM

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

JOINT SESSION – BIG TEN ROOM

Thursday 1/16/20 - 8:15AM to 11:15AM

Round Table DISCUSSIONS

*[SEE THE ROUNDTABLE ROOM GUIDE MAP
ON LAST PAGE OF PROGRAM]*

(6-sessions at 30 minutes each)

1. Health Care Reform Update

Facilitator: Jason Clark (General Agency Company)

2. Understanding Your Credit Card Processing Statement and What You Are Paying

Facilitator: Tim Moran (Tim Moran Merchant Services)

3. Pumper Stories Facilitator: [Jason Spangle (Esch Septic Service, LLC)]

4. USDA Rural Development Financing for Rural Sewer Systems

Facilitator: [Andy Granskog (USDA)]

5. Ask the Pumper - [Facilitator: [Dervin Witmer (Pump That Septic, Dig It Excavating)]]

6. Why Watertight Septic Tanks Are Important - "The Heart of the Septic System"

Facilitator(s): [Dan Wagner (Milan Vault)]

7. GIS Mapping Facilitator: [Joel Kwiatkowski (Bay County Health Department)]

8. System Selection based on Site Needs and Code Requirements

Facilitator: [Matt Johnson (Infiltrator Systems)]

9. Land Application Septage Management

Facilitator: [Rodrigo Meirelles (Williams & Bay Pumping)]

10. Tools That Can Help You Make Additional Profit in Servicing Septic Systems

Facilitator: [Patrick Hogan (Spartan Tool)]

11. Thinking about Buying or Selling A Septic Business...What You Need to Know

Facilitator(s): [Curtis D. Kuttner Fred G. Manuel (Golden Circle Advisors)]

12. Challenges and Issues with Installing Septic Systems in Bedrock

Facilitator(s): [Patrick (Marc) Kelly (Tri-County Septic, LLC)]

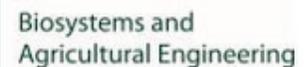
13. Portable Toilet Industry

Facilitator: Brian Bost [Walex Products Company, Inc.]

14. Water Infrastructure: The Interface of Natural and Built Environments in Urban, Suburban, and Rural Communities

Facilitator: [Dr. Steve Safferman (MSU)]

CONFERENCE SPONSORS: EGLE, MEHA, MOWRA, MSTA, MSU



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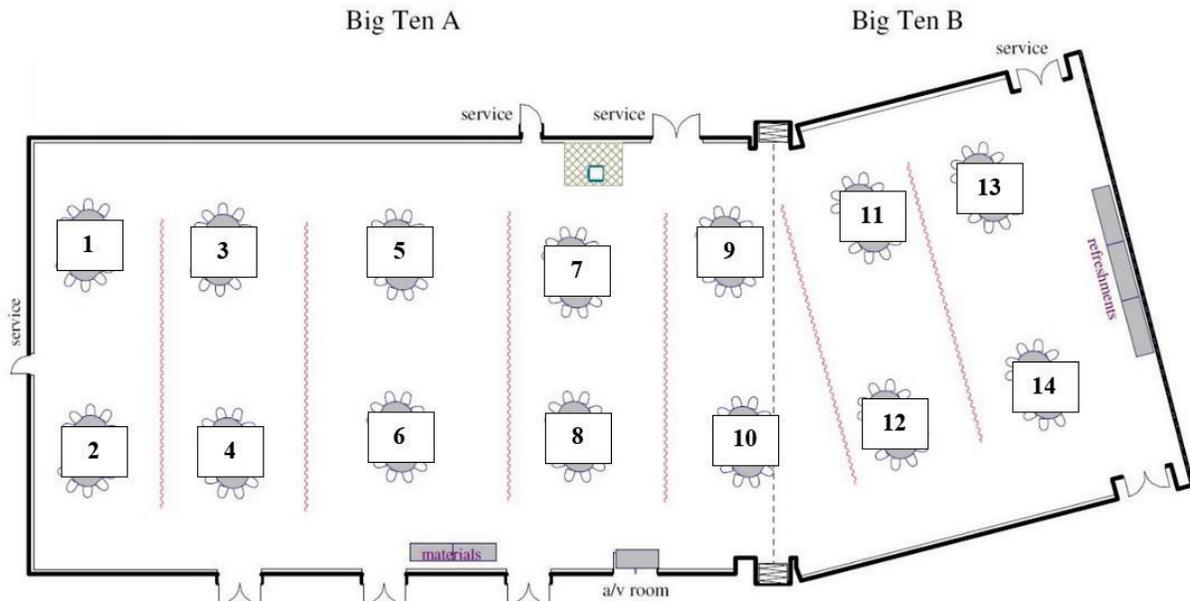
"2020 - A Clear Vision for the Future"



Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

ROUNDTABLE ROOM GUIDE THURSDAY 8:15AM to 11:15AM



Round Table Discussions (6-sessions at 30-minutes each):

1. *Health Care Reform Update* - [Jason Clark (General Agency Company)]
2. *Understanding Your Credit Card Processing Statement and What You Are Paying* - [Tim Moran (Tim Moran Merchant Services)]
3. *Pumper Stories* - [Jason Spangle (Esch Septic Service, LLC)]
4. *USDA Rural Development Financing for Rural Sewer Systems* - [Andy Granskog (USDA)]
5. *Ask the Pumper* - [Dervin Witmer (Pump That Septic, Dig It Excavating)]
6. *Why Watertight Septic Tanks Are Important - "The Heart of the Septic System"* [Dan Wagner (Milan Vault)]
7. *GIS Mapping* - [Bay County Joel Kwiatkowski (Bay County Health Department)]
8. *System Selection Based on Site Needs and Code Requirements* - [Matt Johnson (Infiltrator Systems)]
9. *Land Application Septage Management* [Rodrigo Meirelles (Williams & Bay Pumping)]
10. *Tools That Can Help You Make Additional Profit in Servicing Septic Systems* [Patrick Hogan (Spartan Tool)]
11. *Thinking about Buying or Selling a Septic Business...What You Need to Know* - [Curtis D. Kuttbauer Fred G. Manuel (Golden Circle Advisors)]
12. *Challenges and Issues with Installing Septic Systems in Bedrock* [Patrick (Marc) Kelly (Tri-County Septic, LLC)]
13. *Portable Toilet Industry* [Brian Bost (Walex Products Company, Inc.)]
14. *Water Infrastructure: The Interface of Natural and Built Environments in Urban, Suburban, and Rural Communities.* [Dr. Steve Safferman (MSU)]

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

MORE ROUNDTABLE INFO:

1. Health Care Reform Update

Facilitator: **Jason Clark (General Agency Company)**

Jason will provide applicable updates on the Affordable Care Act and overall healthcare with a focus on small groups. Roundtable will include Question & Answer time.

Bio: Jason is a 2000 graduate of Michigan State University. He has 18 years of experience in Human Resources and Management. Jason has worked with the General Agency since December 2017.

2. Understanding Your Credit Card Processing Statement and What You Are Paying

Facilitator: **Tim Moran (Tim Moran Merchant Services)**

Tim will discuss credit card statements and give tips on how card processing could help your business.

Bio: Tim is a business owner from the Muskegon area. He has been in business for 14 years and a Michigan Septic Tank Association member (MSTA) for 9 years. Tim provides both great pricing and service to MSTAs members.

3. Pumper Stories Facilitator: [Jason Spangle (Esch Septic Service, LLC)]

Same overview as last year. This will be a more intimate setting giving people more of an opportunity to share their stories with the group.

Bio: Jason Spangle is formerly a school teacher and has been working in the septic industry for the past 15 years, the past four years as owner of Esch's Septic Service in Mio, Michigan. Jason has served on the MSTA board for two terms and is currently serving as Secretary. He has a true passion for serving and helping others grow their businesses within the septic industry. Jason and his wife, Heidi, make their home in Mio, where they have seven children.

4. USDA Rural Development Financing for Rural Sewer Systems

Facilitator: **[Andy Granskog (USDA)]**

This program presents the funding opportunities that USDA Rural Development offers for rural communities and homeowners to finance rural sewer improvements and/or replacements.

Bio: Andy Granskog has been the state engineer at USDA Rural Development for 20 years, with another 10 years in private consulting before that. He has been a registered professional engineer for 26 years and has Bachelor and Master degrees in Agricultural Engineering from Michigan State University.

5. Ask the Pumper - Facilitator: [Dervin Witmer (Pump That Septic, Dig It Excavating)]

Bio: Dervin Witmer has a background in business management and was manager of Witmer Motor Service, a third-generation electric motor repair facility for 10 years following graduation. A move to Michigan and an opportunity to start an excavation company began in 2005 when Dig-It Excavating was founded. A year later, Pump That Septic was started to market the septic service side of the company. His vision remains to grow a clean, professional septic service company and be a leader in the industry, both in how septic companies are run and their image, and to be a catalyst for new technology and education for onsite septic systems and maintenance.

6. Why Watertight Septic Tanks Are Important - "The Heart of the Septic System"

Facilitator(s): **[Dan Wagner (Milan Vault)]**

Bio: Dan Wagner of Milan Vault has been a precast concrete producer for 40 years. Dan has served on the Board of Directors of the National Precast Concrete Association, the National Precast Concrete Foundation, and currently serves on the Water and Wastewater Committee of the National Precast Concrete Association. He was also a member of the Michigan Technical Advisory Council for Onsite Wastewater Disposal.

7. GIS Mapping Facilitator: [Bay County Joel Kwiatkowski (Bay County Health Department)]

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

Bay County is the recipient of a 319 Source Water Protection Grant that is being utilized to map out every septic system within the county. Included within the mapping are insight tools that allow the user to pull statistics from the data regarding all of the mapped systems within the county. The ability to store data and view easily across any device that uses a web browser makes the software very handy, efficient, and user friendly. During the roundtable sessions, the mapping project and the abilities of the program will be explained to suit each group and answer any questions about the software.

Bio: Joel Kwiatkowski is the Environmental Health Manager at the Bay County Health Department. He has an environmental health degree from Ferris State University and became a registered sanitarian in 1994. He worked for the Lenawee County Health Department from 1991-1994 and the Bay County Health Department from 1994-present.

8. System Selection based on Site Needs and Code Requirements

Facilitator: **[Matt Johnson (Infiltrator Systems)]**

Discussion of system types to provide onsite wastewater recycling solutions based on site/homeowner needs and code requirements. From conventional systems to NSF rated technologies.

Bio: Matt Johnson is the Area Sales Representative for Infiltrator Water Technologies, a plastics manufacturing company providing septic tanks and gravel-less technologies for onsite wastewater systems. Matt has 35 years of experience in the wastewater and water industry.

9. Land Application Septage Management

Facilitator: **[Rodrigo Meirelles (Williams & Bay Pumping)]**

Rodrigo will discuss Land Application Septage Management.

Bio: Rodrigo Meirelles is originally from Brazil where he earned a Bachelor of Science degree in Mechanical Engineering and started working in the Commercial

Vehicle industry in 1994, first at Clark Equipment and later at Eaton Corporation, where he worked for 18 years. Pursuing an international career, in 1999 Rodrigo and his family relocated to the Netherlands and in 2002 they moved again to the Kalamazoo, Michigan area. After his move to Michigan, Rodrigo earned a Master's in Business Administration from Michigan State University and became a U.S. Citizen in 2010. In 2011/2012 Rodrigo accepted the position of Commercial Director for Europe, the Middle East, and Africa while living in Italy. From 2012 to 2014, Rodrigo was Vice President and General Manager for Fras-le (a friction material manufacturer) for North America, Europe, and Asia-Pacific and from 2014 to 2016 he was Vice President of Sales and Business Development for DMP, a fabricator for the Commercial Vehicle industry. In 2016, Rodrigo acquired his first business, Hampel's Gun Co. in Traverse City, MI, and in 2017, he became entangled in the Septic Industry, first with the acquisition of Williams & Bay Pumping Service, and in 2018 of Decker Pumping and Houdek Pumping, all in Leelanau County. In September 2019, Rodrigo led the acquisition of Hall's Serv-All in Alpena County. Rodrigo currently serves as a board member of MSTA, and is a major advocate of the Continuous Septage Education Credits and nutrient recycling through land application. He lives in Traverse City, MI, with his wife of 29 years, Maria.

10. Tools That Can Help You Make Additional Profit in Servicing Septic Systems

Facilitator: **[Patrick Hogan (Spartan Tool)]**

Patrick will discuss drain cleaning, diagnostic services, and preventive maintenance can drive up customer satisfaction and profits.

Bio: With twenty years of experience in the sewer and wastewater industry, Patrick has worked with Spartan Tool as the Michigan territory manager for the last 4 years. Prior to that, he was the general operations manager for a sewer and drain cleaning company in southeast Michigan. At Spartan Tool, Patrick conducts sales, training, and consulting services for sewer and drain cleaners, septic pumping companies, pipe

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

replacement companies, and sewer diagnostic services companies.

11. Thinking about Buying or Selling A Septic Business...What You Need to Know

Facilitator(s): [Curtis D. Kuttner Fred G. Manuel (Golden Circle Advisors)]

Our goal is to help owners have a better understanding of the processes of selling and buying and give owners some ideas on how to increase the value of their business.

Bio(s): Above

12. Challenges and Issues with Installing Septic Systems in Bedrock

Facilitator(s): [Patrick (Marc) Kelly (Tri-County Septic, LLC)]

Marc will discuss the challenges and issues with installing septic systems in bedrock.

Bio: Marc has been in the septic business for 29 years. He lives on Drummond Island, where they face many challenges when it comes to septic systems. He and his wife own a septic tank cleaning service and he also works in construction. In his spare time (what's that?) he enjoys hunting, fishing, golfing, and smoking different meats.

13. Portable Toilet Industry

Facilitator: **Brian Bost [Walex Products Company, Inc.]**

Brian will discuss portable restrooms in 2020. In particular, he will address the art of providing unsurpassed service, marketing your brand, and making your employees and customers happier all while enhancing your business's image and profit.

Bio: Above

14. Water Infrastructure: The Interface of Natural and Built Environments in Urban, Suburban, and Rural Communities. Facilitator: [Dr. Steve Safferman (MSU)]

Watersheds often encompasses the urban, suburban, and rural environments and circulates globally through the atmosphere, streams, lakes, and soil. This roundtable will seek input from participants on suggestions and case studies on how to holistically solve wastewater and water infrastructure challenges at the intersection of the built and natural environments

Bio: Steve Safferman is an Associate Professor in the Department of Biosystems and Agricultural Engineering at Michigan State University and has research, extension, and teaching appointments. Steve has a M.S. and Ph.D. in environmental engineering and a B.S. in civil engineering, all from the University of Cincinnati, and holds Ohio and Michigan professional engineering licenses. His research and extension programs focus on the fate and transport of nutrients applied to agriculture land, system designs for waste to resource technologies, and wastewater treatment.

BREAK

Thursday 1/16/20 - 11:15AM to 11:30AM

TRACK I - LINCOLN ROOM

“Putting Onsite Systems on Bedrock”

Thursday 1/16/20 - 11:30AM to 12:00PM

Presented by:

Patrick (Marc) Kelly [Tri-County Septic, LLC]

Marc will discuss the challenges and issues with installing septic systems in bedrock.

Bio: Marc has been in the septic business for 29 years. He lives on Drummond Island, where they face many challenges when it comes to septic systems. He and his wife own a septic tank cleaning service and he also works in construction. In his spare time (what's that?) he enjoys hunting, fishing, golfing, and smoking different meats.

LUNCH – BIG TEN A&B ROOM (PROVIDED)

Thursday 1/16/20 - 12:00PM to 1:00PM

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

“Harmful Algal Blooms – What Does the Science Say About Onsite Systems & HABs” [Panel Discussion]

Thursday 1/16/20 - 1:00PM to 2:00PM

Presented by:

Erick Elgin [MSU Extension]

Dr. Susan Peters [Michigan DHHS]

Aaron Parker [EGLE]

Dr. Alan Steinman [Grand Valley State University]

Harmful algal blooms (HABs) are occurring in Michigan’s inland lakes as well as Lake Erie. Algal blooms are harmful when toxins are present that can make people and animals sick. The nutrients associated with HABs include those found in onsite sewage systems. In this session you will learn about HABs including activities occurring in Michigan to monitor and track related environmental and health impacts.

Bio: Erick is an aquatic ecologist and water resources educator with Michigan State University Extension. His main responsibilities are to promote and research the wise use, protection, and restoration of our freshwater systems. Erick’s recent efforts focus on aquatic plants, lake management, natural shorelines, and improving the knowledge of decision makers to make sound water management decisions. Erick has a M.S. in aquatic ecology from the University of Calgary and a B.S. in natural resources management from the University of Minnesota. He is vice-chair of the Michigan Natural Shoreline Partnership and president of the Michigan Chapter of the North American Lake Management Society.

Bio: Dr. Susan Peters is a Waterborne Disease Epidemiologist with the Michigan Department of Health and Human Services. In this role, she is responsible for increasing agency capacity to respond to waterborne illness, including harmful algal blooms, through increased surveillance, education and outreach, and interagency collaboration. Previously she has worked with MDHHS as an Influenza Surveillance Epidemiologist and with the Barry-Eaton District Health Department as a Health Analyst. Dr. Peters received her Doctorate in Veterinary Medicine from

Michigan State University and her Master in Public Health from the University of Minnesota.

Bio: Aaron Parker is an Aquatic Biologist with the Michigan Department of Environment Great Lakes and Energy. He has a Bachelors degree in Natural Resource Management and Masters degree in biology both from Grand Valley State University. Before working for EGLE he worked in an Everglades ecology lab at Florida International University and with the US Fish and Wildlife Service in Illinois. His work at EGLE mostly focuses on tracking and sampling harmful algal blooms throughout Michigan.

Bio: Dr. Steinman has Ph. D in botany/aquatic ecology from Oregon State and has been the Director/Professor at the Annis Water Resources Institute at Grand Valley State University since 2001. He has authored and co-authored 176 papers on a variety of water related topics.

“Decision Making at the Intersection of the Built and Natural Environments: Fostering a Learning Community” [Panel Discussion]

Thursday 1/16/20 - 2:00PM to 3:00PM

Presented by:

Bindu Bhakta [MSU Extension - Oakland County]

Terry Gibb [MSU Extension]

Dr. Steve Safferman [MSU]

Harmful algal blooms in fresh water are primarily attributed to phosphorus entering rivers and lakes. Sources include centralized wastewater treatment plants, onsite wastewater systems, storm water, and agriculture runoff and drainage. Every watershed is unique and must be examined holistically to select the most effective and efficient management practice. Technical evaluations of all sources, planning, and community outreach are all important in selecting and implementing the optimal practice. This presentation will review state-of-the-art practices to control phosphorus, with an emphasis on sorption using engineered media, discuss the challenges of breaking down silos so that all solutions are objectively evaluated

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

and all stakeholders are all welcomed to participate, and provide examples of community outreach programs.

Bio: Bindu Bhakta is a Natural Resources Educator for Michigan State University Extension (MSUE) based in Oakland County. She develops and delivers public education programs for adults and youth on a variety of topics including inland lake management and natural shorelines, landscaping for water quality, onsite wastewater management, and the importance of soil testing. Programs she helps coordinate include Michigan Water School, Introduction to Lakes Online, the Septic Education Program, and the Michigan Conservation Stewards Program.

Bio: Terry Gibb joined MSU Extension (MSUE) in 1990 and is currently a Senior Natural Resources/Government and Public Policy Educator. Her work in the area of natural resources includes water quality, land use, waste management, energy and septic education where she had partnered with local health departments to offer Homeowner Septic System and Well Use and Maintenance workshops since 1997. Ms. Gibb has a Bachelors degree in Consumer Economics and Masters degree in Teaching/Education both from Wayne State University. She has a teaching certificate in secondary education and is a certified Housing counselor. In 2016, she was awarded the Distinguished Academic Staff Award from MSU.

Bio: Steve Safferman (Above)

PRIZE DRAWING IN AUDITORIUM

[MUST BE PRESENT TO WIN]

Thursday 1/16/20 - 3:00PM

CONFERENCE ENDS

TRACK II - AUDITORIUM

“Innovative Septic System Accessories”

Thursday 1/16/20 - 11:30AM to 12:00PM

Presented by:

Gary Koteskey (President) [Sim/Tech Filter, Inc.]

Gary has a deep understanding of the issues encountered by both installers and service companies through

personal installation/service experience and interactions with many onsite professionals in the U.S. and Canada through state and national trade shows. His talk will share that knowledge by speaking about products that protect systems and make them easier to maintain. There will be many examples of various common and not-so-common system issues and what can be done to prevent them.

Bio: Gary is President of Sim/Tech Filter and owner/operator of Koteskey Brothers Excavating. He has been involved in installing onsite wastewater systems for 43 years and developing filters and other products for those systems for 22 years with many U.S. and foreign patents.

LUNCH – BIG TEN A&B ROOM (PROVIDED)

Thursday 1/16/20 - 12:00PM to 1:00PM

“Portable Restroom & Installer Panel Discussion Panel Discussion”

Thursday 1/16/20 - 1:00PM to 3:00PM

Presented by:

Ralph Bailey [American Rentals, Inc.]

Travis Gemell [Walnut Grove Excavating]

Nick Sergeant [Sergeant’s Septic and Excavating]

Jason Spangle [Esch Septic Service, LLC]

Dervin Witmer [Pump That Septic, Dig It Excavating]

Portable Restrooms, Pumping, and Installers Panel Discussion. How do the other guys do it? What can I change to make my job easier? What technology is the other guy using? These are all questions that go through our minds as owners of portable restrooms, septic tank pumping, and installer businesses. This panel’s goal is to assist you in finding answers to those industry related questions. This is a whole group discussion; there will be a panel of fellow colleagues that will help lead discussion.

Bio: Ralph Bailey has been involved with portable sanitation for over 20 years at American Rentals, an operation of approximately 1500 units and a number of restroom trailers. He worked the sanitation side of the business, including the disposal of waste. Previously,

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Thursday Course Descriptions

January 16th – Courses run from 8:15AM to 3:00PM

Ralph worked for a general rental company for 20-years. After college, Ralph purchased and ran his own business until selling it to adopt a little boy from Korea. Ralph has been involved with MOWC for over a decade.

Bio: Travis Gemell has a Master of Business Strategy and Leadership Development from Michigan State University. He worked at Gordon Food Service for more than 20 years in several leadership roles. He started Walnut Grove Excavating 3 years ago and continues to focus his growth and services around septic systems.

Bio: Nick Sergeant has 23 years of experience serving the septic and excavating industry as a site specialist for residential and light commercial needs. Nick took over the company as the fourth generation owner-operator of Sergeant's Septic and Excavating in 2008. Nick's ever-growing knowledge about septic systems, technology, and the need for environmentally friendly systems in his service area has made an excellent combination that has proven to grow his service business. Over Nick's career he's installed systems throughout the mid-west and beyond, specializing in finding the right solutions for the needs. Most recently, Nick served on the MSTA board for two years, and has been the Fire Chief in his home town in Houghton Lake for 4 years. Growing a 72-year-old pumping and excavating business has been his passion, and without his family's support, the businesses' success would have been unattainable.

Bio: Jason Spangle (Above)

Bio: Dervin Witmer (Above)

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Biosystems and Agricultural Engineering

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Thursday 1/16/20 - 3:00PM

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Biosystems and
Agricultural Engineering

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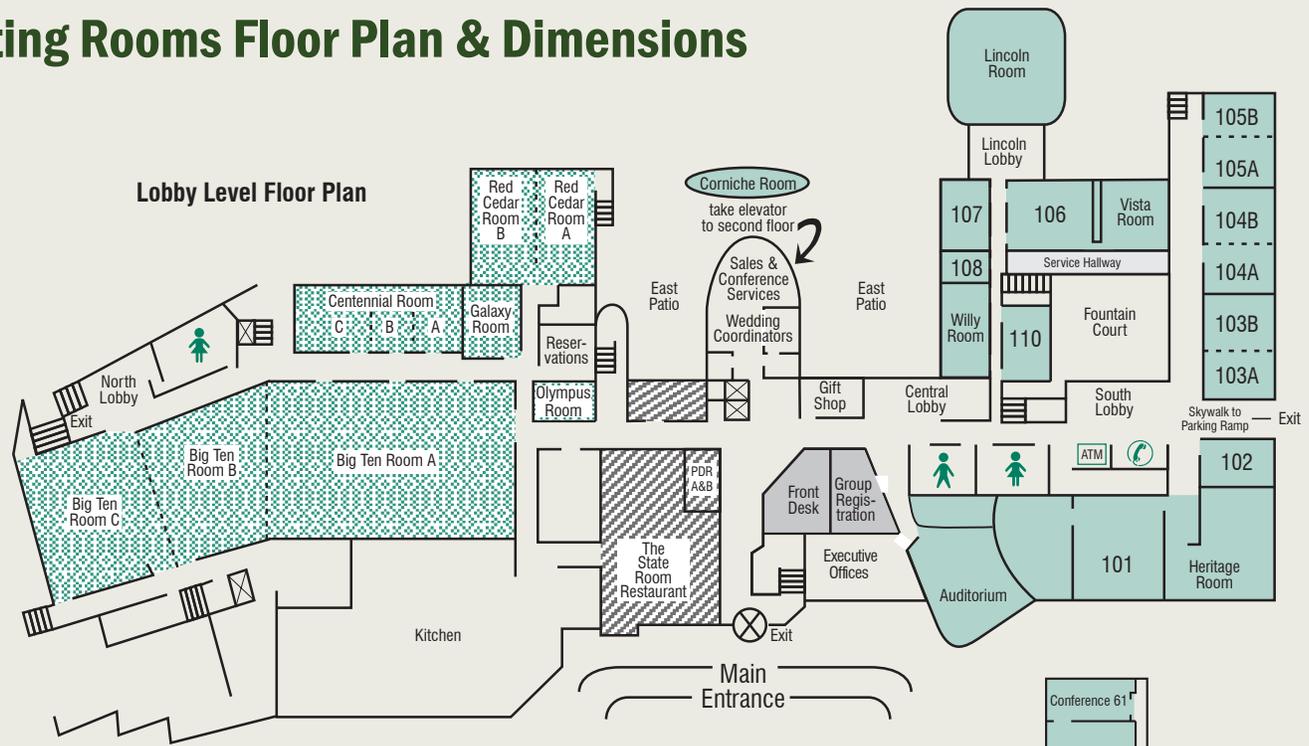
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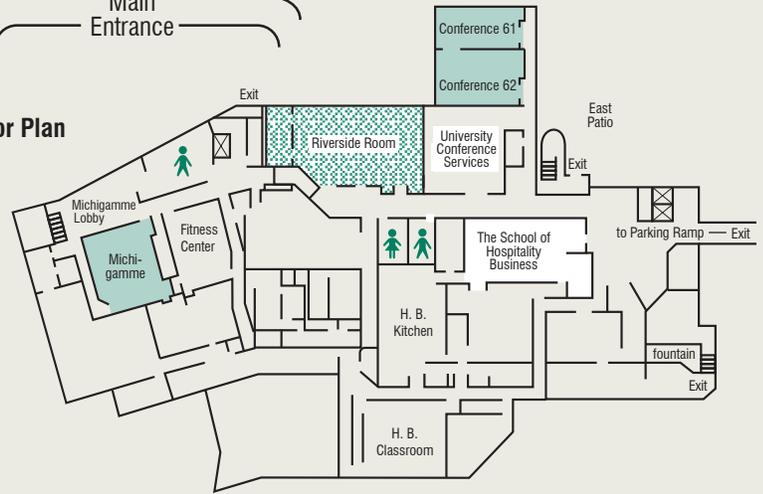
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Meeting Rooms Floor Plan & Dimensions



Ground Level Floor Plan



- Meeting Rooms
- Banquet Areas
- Eating Areas
- Front Desk
- Elevators
- Men's Room
- Women's Room
- Telephones

LOBBY LEVEL																
Room	Max Comfort		Max Capacity		Theater	Length	Width	Ceiling	Room	Max Comfort		Max Capacity		Max Tables		
	Classroom	Rounds	Classroom	Rounds						Classroom	Rounds	Classroom	Rounds			
Big Ten A	230	345	400	440	600	100'	60'	15'	Heritage	36	54	5	56	40'	20'	9'9"
Big Ten B	108	162	200	216	240	43'	60'	15'	Vista					28'	16'	8'4"
Big Ten C	108	162	200	200	240	48'	60'	15'	102	20	30	4	40	28'	22'	9'
Big Ten AB	356	534	600	640	840	143'	60'	15'	103 A	20	30	3	40	28'	20'	9'4"
Big Ten BC	230	236	400	416	500	91'	60'	15'	103 B	24	36	3	40	28'	20'	9'4"
Big Ten ABC	670	810	800	1000	1200	200'	60'	15'	103 AB	48	72	7	90	28'	40'	9'4"
Centennial A	14	21	24	32	20	20'	22'	10'	104 A	20	30	3	40	28'	22'	9'4"
Centennial B	14	21	24	32	20	20'	22'	10'	104 B	24	36	3	40	28'	18'	9'4"
Centennial C	28	42	40	48	40	32'	22'	10'	104 AB	48	72	7	90	28'	40'	9'4"
Centennial AB	36	54	48	64	40	40'	22'	10'	105 A	24	36	3	40	28'	22'	9'4"
Centennial BC	44	66	54	80	60	52'	22'	10'	105 B	24	36	3	40	28'	18'	9'4"
Centennial ABC	70	105	96	112	140	72'	22'	10'	105 AB	56	84	7	90	28'	40'	9'4"
Lincoln	112	162	160	200	300	54'	56'	12'	106	48	72	7	90	37'	26'	8'4"
Red Cedar A	28	42	48	48	56	46'	20'	8'5"	107	16	24	3	35	28'	16'	8'3"
Red Cedar B	42	56	64	64	72	46'	26'	8'5"	108					16'	12'	8'3"
Red Cedar AB			112	120		46'	46'	8'5"	110	14	21	3	35	27'	16'	8'2"
Galaxy	12	18	24	32	24	25'	18'	8'5"	Willy	22	33	4	50	36'	16'	8'3"
Auditorium					300	60'	60'	13'								

SECOND LEVEL								GARDEN LEVEL								
Room	Max Comfort		Max Capacity		Theater	Length	Width	Ceiling	Room	Max Comfort		Max Capacity		Max Tables		
	Classroom	Rounds	Classroom	Rounds						Classroom	Rounds	Classroom	Rounds			
Corniche	34	51	48	54	60	24'	38'	8'5"	Riverside	56	84	13	80	59'	24'	8'
									Michigamme	50	50			32'	22'	
									Conference 61	24	36	4	45	37'	17'	8'3"
									Conference 62	28	48	6	60	37'	24'	8'3"

*Rooms set in rounds are with the tables only, no dance floor, buffets or head table

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