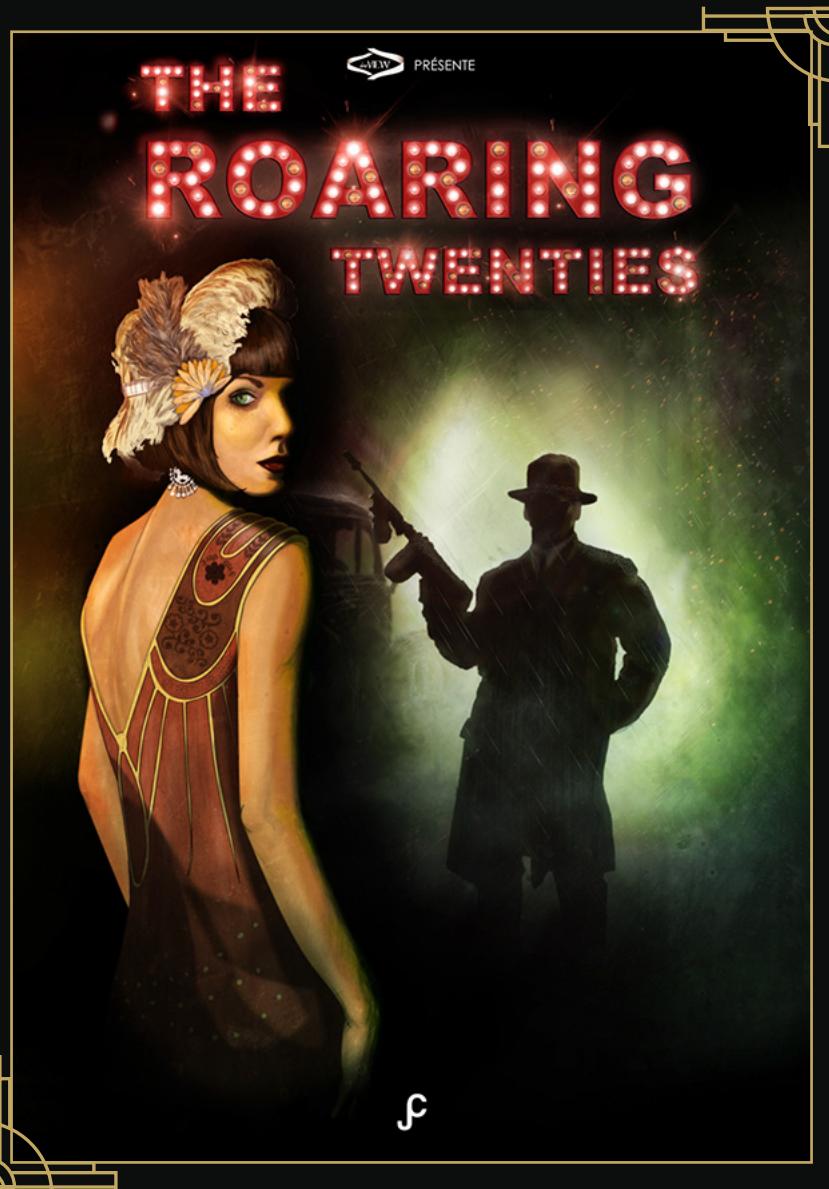


MWCC

Environmental Conference

JULY 10-12, 2022



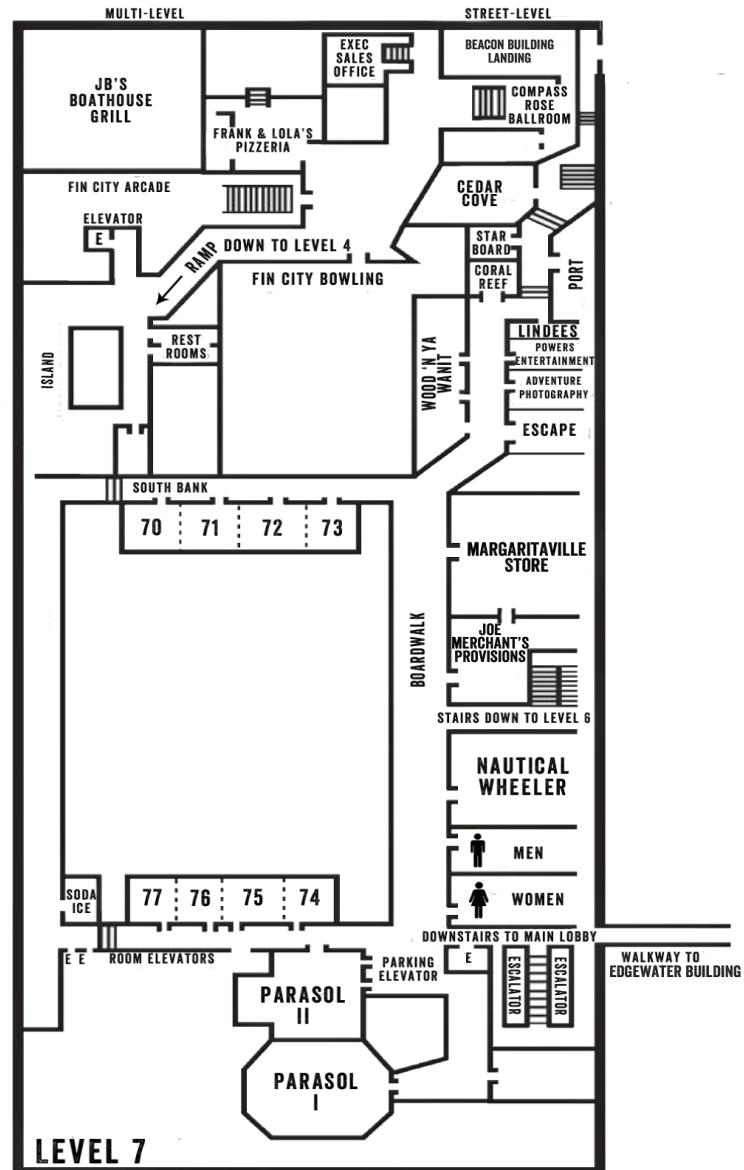
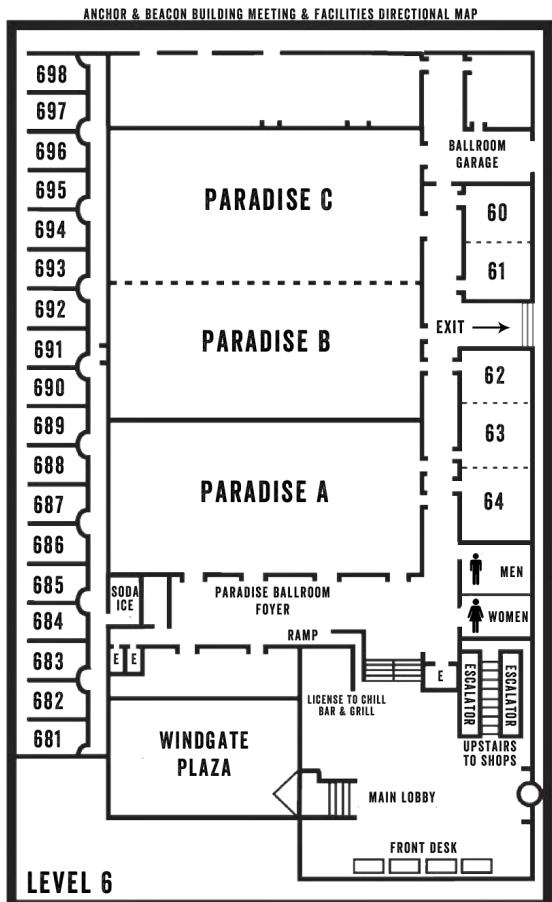
A New Era of Environmental Prosperity

MARGARITAVILLE

Lake Resort

LAKE OF THE OZARKS

OSAGE BEACH, MISSOURI



Dear Conference Attendees,

Welcome back! I am so pleased that we are able to participate in live events like this again. I know that I personally enjoy seeing all of you in person much more than I would have over a computer screen! It's always great to see everyone again and thank you for joining us for the 49th Annual Missouri Waste Control Coalition Conference. We are excited to see so many returning attendees, speakers, exhibitors, and new faces this year too. We hope that you take the time to meet and interact with all of the wonderful vendors and sponsors for this event, as we wouldn't be able to make this happen without them. We also hope that you are able to learn new information from the experienced speakers, meet potential customers, and reconnect with old or make new friends. As an organization, our goal is always to provide a cohesive event that enables ample opportunity to connect, socialize, and learn.



Our theme for this year's conference is "*The Roaring Twenties: A New Era of Environmental Prosperity*". As many of you may not know, the 1920's liberation came soon after the Spanish Flu Pandemic that had devastated our country. So here we are 100 years later, coming out of the COVID pandemic and we are ready to prosper. We are ready to move forward with making a better world and a better environment to leave behind as our legacy. As environmental professionals it is our job to make sure that this happens.

Our annual conference is intended to serve as a platform to keep industry, government officials, and private citizens informed of the latest developments in the environmental field and to serve as a forum where opinions can be openly voiced. This is also a great opportunity for young professionals to connect with the many stakeholders in the environmental field. We welcome your participation and input throughout the conference.

Many volunteers spend countless hours preparing for this annual conference, all the while coordinating and executing other organization activities and meeting the demands of their "paying" jobs. The conference committee has been working hard for the past year to put together this year's conference. Special thanks to Ken Ewers with GREDELL Engineering Resources, this year's President Elect and Conference Chair, as well as the Board of Directors, the conference committee, and the advisory board. We could not do what we do without our Executive Director, Sandra Sabanske, who works very hard to keep this group on task, as well as the conference sponsors, exhibitors, and you, the coalition members who are in attendance.

Next year's conference will be at Tan-Tar-A, a Margaritaville Lake Resort, from July 9 – 11, 2023. This will be a big one that you will not want to miss out on, as we celebrate our 50th year of the Environmental Conference. If you have any suggestions or would like to be a part of the Conference Committee, please contact Ken Koon with Missouri Department of Natural Resources, the upcoming President Elect and Conference Chair for the 2023 Annual Conference.

Enjoy the conference and have a great summer,

Anna Custer,
MWCC President, 2021-2022

Missouri Waste Control Coalition

Celebrates its 49th Annual Conference and its 40th Anniversary as a Nonprofit Association

Many of us come every summer for the annual Environmental Conference to showcase our products and services, to reconnect with old and new friends, and to gather cutting edge information on environmental issues. But have you ever wondered how all of this was started?

From 1972-1981, the Missouri Department of Natural Resources sponsored an annual "Missouri Solid Waste Conference" in Jefferson City. The purpose of the conference was to bring together citizens, government, business and industry to discuss the rapidly changing field of waste management. From these early conferences, the Missouri Waste Control Coalition (MWCC) was born, formed in 1981 through the efforts of the Missouri Department of Natural Resources, the University of Missouri-Columbia, and the Associated Industries of Missouri. The MWCC became the coordinating body for the annual conference. Over the years the conference has expanded beyond solid waste issues to encompass Brownfields, Tanks, CCR, Land Development, Legal and other environmental issues.

In 1989 the MWCC added a teacher mini-grant program to recognize the importance of education and to increase student interest in environmental issues, and sponsored an Environmental Greeting Card Program. The Coalition replaced those programs in 2009 and now provides college students with cash scholarships that total \$84,000 through 2022 as well as scholarships to the conference.

It has offered regional seminars from time to time and, through a grant from MoDNR, it offered special Appliance Demanufacturing Training Workshops. From 2013 to 2017 it partnered with the U.S. Environmental Protection Agency and presented seminars in Kansas City and St. Louis. In 2018 it developed a partnership with the Interstate Technology Regulatory Council (ITRC) and presented seminars across the state. In 2020 due to the COVID-19 pandemic, MWCC offered 7 webinars on solid waste issues rather than in-person seminars. Since 2014 it has offered the 40-Hour HAZWOPER Training, and has plans to continue this offering.

Through the hard work of its members and the leadership provided by its board, the MWCC has broadened its scope from a small gathering of individuals into an established and effective organization. You are a part of that organization, and this conference is part of a tradition that reflects more than 49 years of providing information and a forum for discussion!

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This program is printed on paper made of recycled fibers.



\$10 per raffle ticket - Drawing during lunch on Tuesday
Need not be present to win

Buy a Raffle Ticket

Contribute to the MWCC Educational Scholarship Fund

This year the MWCC is awarding scholarships to students at

- Lincoln University
- Missouri State University
- Missouri University of Science & Technology
- Southeastern Missouri University
- University of Missouri - Columbia

GRAND PRIZE
\$1,000

FIRST PRIZE
\$400 CASH

SECOND PRIZE
\$200 CASH

Our thanks to our sponsor:

**GREDELL Engineering
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MoDNR Brownfields Voluntary Cleanup
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US EPA

Anastasia Welch
SCS Engineers

MWCC Past Presidents

L.Joe Sell AT&T 1981-82	Jane Bishop Missouri Recycling Association 1991-92	Thomas R. Gredell GREDELL Engineering Resources 2001-02	Mark Russell Aquaterra Environmental Solutions, Inc. 2010-11
John T. O'Connor Univ. of Missouri-Columbia 1982-83	Stephen Mahfood Mo EIERA 1992-93	Dennis Hansen Mo Dept. of Natural Resources 2002-03	Brandy Kean Burns & McDonnell 2011-12
Joe Eigner Eigner & Associates 1983-84	Dolores Vermont Monsanto Company 1993-94	Dale Behnen Peerless Landfill & Resource Recovery 2003-04	Steve Meyer City of Springfield 2012-13
Robert Schreiber Schreiber, Grana and Yonley 1984-85	Carla McDowell Allied Waste 1994-95	Cliff Metcalf Tri-Rinse, Inc. 2004-05	Larry "Boot" Pierce MoDNR Div of Geology and Land Survey 2013-14
Jan Dillow Heritage Environmental Services, 1985-86	Kenneth Seeney Mo EIERA 1995-96	Kristin Allan Tipton EIERA Market Dev. Program 2005-06	John Haasis St. Louis Dept. of Public Health 2014-16
Jim Garvin Confidential Mobile Paper Shredders 1986-87	Ron Darling City of St. Peters 1996-97	Erick Roberts City of Springfield 2006-07	Lisa McDaniel Mid-America Regional Council 2016-17
Judy Gibbs Avila College 1987-88	Keith Connor SCS Engineers 1997-98	Michael Sieczkowski JRW Bioremediation 2007-08	Anastasia Welch SCS Engineers 2017-18
David Bedan Mo Dept. of Natural Resources 1988-89	Rickie L. Roberts Burns & McDonnell 1998-99	Kathy MacBeth Barker Lemar Engineering 2008-09	Scott Martin Burns & McDonnell 2018-19
Jack Frauenhoffer Mallinckrodt Specialty Chemicals 1989-90	Jim Hull MoDNR Solid Waste Mgt 1999-2000	Gil Kauffmann PSC Environmental 2009-10	Larry Lehman MoDNR Land Reclamation Program 2019-21
Mike Duvall SCI Environmental 1990-91	Marie Steinwachs Univ.Outreach and Extension 2000-01		



CONTINUING EDUCATION NOTICE

Recertification as a Missouri "Certified Solid Waste Technician"

For each session of the breakout sessions specially marked, attendance counts towards education requirements for recertification as a Missouri Certified Solid Waste Technician. Please email L.Wylie@dnr.mo.gov or David.Baker@dnr.mo.gov the following information:

- Which break out session(s) were attended that are eligible for credit (please note the symbol  in the agenda indicating eligible sessions), and the total hours of attended sessions.
- Please include 'MWCC Recertification Credit' in the email subject line.

**PDH, SWANA and Missouri CLE credits are available
Forms will be available at the Registration Desk.**

CONFERENCE SCHEDULE

SUNDAY, JULY 10

10:00 AM	GOLF TOURNAMENT Shotgun Start	The Oaks Golf Course
2:00 PM	Exhibit Set Up Opens	Paradise Ballrooms A, B
4:00 PM	Registration Opens	Foyer, Paradise Ballrooms
6:00 PM	WELCOME RECEPTION SPONSORED BY GLOBAL CONTAINMENT SOLUTIONS AND REPUBLIC SERVICES	Paradise Ballrooms A, B
8:00 PM	Young Professionals Social Event (New to the industry - less than 5 years) SPONSORED BY CITY OF SPRINGFIELD DEPARTMENT OF ENVIRONMENTAL SERVICES	Windgate 60 - 61

MONDAY, JULY 11

7:30 AM	Registration and Exhibits Open Coffee and "Meet and Greet"	Paradise Ballrooms A, B
8:30 AM	BREAKFAST AND PLENARY SESSION SPONSORED BY MoDNR BROWNFIELDS/VOLUNTARY CLEANUP PROGRAM	Paradise Ballroom C
	Speaker: AMY MEIER Stream Team Coordination Biologist for Missouri Department of Conservation	
10:00 AM	Break with Exhibits SPONSORED BY GREDELL ENGINEERING RESOURCES, INC. AND PACE ANALYTICAL SERVICES	Paradise Ballrooms A, B

MONDAY, JULY 11

10:30 AM - 12:00 Noon

CONCURRENT BREAKOUT SESSIONS

SOLID WASTE TRACK

Moderator: Aaron Libbert, Mo Department of Natural Resources

- **Public-Private Partnerships:
A Pathway to Successful Materials Recovery Facilities**
Roger Craggs, Burns & McDonnell Engineering Company, Inc.

Nautical Wheeler Room



The nearly 400 residential recycling facilities located throughout the United States vary in size and type. They have been developed by local governments, private recycling companies, or through public-private partnerships. Public-private partnerships are an innovative approach that can be tailored to fit a specific community's needs. The two primary approaches include 1) local government owned facility with private operations or 2) privately owned and operated facility on public land. This presentation will include a description of the procurement process used to create public-private partnerships, the various types of public-private partnerships applicable to developing and operating facilities, and the potential benefits associated with this innovative arrangement. Community case studies with MRF public-private partnerships will be shared to illustrate these types of arrangements and the potential benefits. The presentation will also include a live polling component to actively engage attendees by gathering opinions on key recycling issues.

- **Landfill MBA**

Brady Stewart and Ben Tucker, Waste Connections



There are hundreds of financial aspects behind some of Missouri's post-collection facilities. Have you ever wondered what solid-waste companies focus on when looking at a P&L? Ever seen a P&L? Ever wondered how, as part of a publicly traded company, we delegate capital dollars throughout our assets? Ever wondered the true cost of environmental compliance?... Waste Connections is pleased to show you a behind-the-curtain look at all the topics above. As a bonus, the Central Region of Waste Connections has developed four landfill metrics to help understand and improve profits and cash flows. Warning: attendees will be subjected to real-world operations, costs, and realities. Not for the faint of heart. Hopefully as a group, and a team, we can provide a few golden nuggets to the next generation in their pursuit of environmental prosperity.

ENVIRONMENTAL ISSUES TRACK

Parasol I

Moderator: Gil Kauffmann, Heritage Environmental Services

- **DNR Website Q & A**
Heidi Rice, Missouri Department of Natural Resources

- **CCR Groundwater Compliance Using Hydraulic Control and Metals Treatment**
Derek Ingram, P.E., RG, PG, Loureiro Engineering Associates



The presentation consists of bench-scale, pilot-scale and full-scale treatment of CCR impacted groundwater through hydraulic control and metals treatment approaches. Federal drinking water standards are being obtained in this first in the nation injection approach to meet corrective action measures of the CCR rule. A detailed case study of a full-scale remedial action at a Missouri ash pond will be presented.

- **Monitored Natural Attenuation Evaluation of a Downgradient Groundwater Plume**

Jessie Goodwin, P.E., Geotechnology, LLC

The presentation covers methods used to evaluate the effectiveness of monitored natural attenuation at a downgradient groundwater plume. The approximately 50-acre daughter-product groundwater plume is downgradient of a historic chlorinated solvent release.

MONDAY, JULY 11

10:30 AM - 12:00 Noon

CONCURRENT BREAKOUT SESSIONS (continued)

BROWNFIELDS TRACK

Moderator: Jacob Rohter, MoDNR Brownfields/Voluntary Cleanup Program

Windgate 62-64

- **The BVCP at Work**

Scott Huckstep, MoDNR Brownfields/Voluntary Cleanup Program and Keith Winge, Missouri Main Street

The opening session will provide an accelerated review of the activities and offerings of the MoDNR Brownfields Voluntary Cleanup Program (BVCP). We will also share notable success stories from the 1000+ "Certificates of Completion" issued and highlight opportunities for communities both large and small to take advantage of our resources.

TANKS TRACK

Moderator: Ken Koon, MoDNR Tanks Section

Parasol II

- **Case Study: Characterization of a Gasoline Release to Bedrock in Kansas City, MO**

Suzanne Bailey, R.G.,P.G., Environmental Works, Inc.

In 2015, gasoline vapors were reported in an older residential area of Kansas City, MO. LNAPL was discovered in the sanitary sewer along a residential street. Emergency response activities included recovery of product and water from the sewer and recovery sumps. The source was determined to be from USTs at a filling station one block west and uphill from the residences. The UST system was replaced and the sanitary sewer was partially lined. This case study summarizes the site characterization and risk assessment performed. The presentation will cover the site geology, hydrogeology and circumstances that led to the gasoline entering the sewer, as well as activities and data that resulted in a 2021 no further action letter.

- **In-Place UST Closure vs UST Removal: Pro's and Con's**

Melissa Dowling, Terracon Consultants, Inc.

When a client requests costs to close underground storage tanks (USTs) in-place we want to be sure they understand the pro's and con's of in-place closure versus removal of the USTs. We will explore the monetary costs of the two avenues, long term risks, possible construction issues, and value implications.

12:00 Noon

LUNCH AND AWARD PRESENTATIONS

Paradise Ballroom C

Speaker: **DENISE COOGAN**, Environmental Partnership for Subaru of America, Inc.

SPONSORED BY

HERITAGE ENVIRONMENTAL SERVICES AND
ARMOR EQUIPMENT CO.

MONDAY, JULY 11

1:30 - 3:00 PM

CONCURRENT BREAKOUT SESSIONS

SOLID WASTE TRACK

Moderator: Nicholas A. Paul, City of Columbia

- **Storm Water: A Love Story**

Taylor Thompson and Jenny Holt, Weaver Consultants Group

The design, construction and operation of a landfill requires the examination of many components while looking into the past and future to imagine its existence. One component that is difficult to evaluate is storm water. Storm water can lead to a number of issues including ponding, increased leachate output, unsatisfactory storm water infrastructure, and compliance with a facility's SWPPP and NPDES permit. Using a case-study, WCG depicts how early design through the lens of storm water could better prepare a landfill design, construction and operation.



- **Preparing to Close**

Anastasia Welch, P.E., SCS Engineers

Many landfills perpetually expand these days. However, even these facilities will eventually need to close. In the final years of landfill operation, there are several things a facility can do to put them in a better position to close when final capacity is reached. Considering fill patterns, NSPS trigger thresholds, soil needs, cover type, and construction timelines can provide a better transition from operations to closure to post-closure care. This presentation will discuss the planning activities conducted during the final three years of operation of the Lee's Summit Landfill, and the closure process for this facility with some lessons learned.



- **Reflections of a Dinosaur**

Mark Milward, RG, Saint Louis County Department of Public Health



In consideration of his impending retirement and final farewell to friends and colleagues, Mark will discuss his observations of industry practices, changing technology, and game breaking regulations from over the past 40 years.

MONDAY, JULY 11

1:30 - 3:00 PM

CONCURRENT BREAKOUT SESSIONS (continued)

ENVIRONMENTAL ISSUES TRACK

Parasol I

Moderator: *Travis Doll, R.G., Jett Environmental Consulting*



- **The Role of PFAs in Environmental Management Prosperity in the 20's**

Frank Marine, Texas Molecular LP

There has been a lot of issues in the past like Superfund, Dioxins, PCBs, and Air Emissions, and Land Ban Regulations that have been considerable sources of emphasis for regulated industry, regulatory agencies, non-government organizations, and environmental service providers. PFAS may be an even greater opportunity as it touches all media including air, drinking water, wastewater, groundwater, products, and toxicity. On-site and off-site treatment, analysis, and overall risk concerns touch a large amount of industries directly and indirectly. At this point, management of PFAS should be very active through the 2020s and beyond.

- **Colloidal Activated Carbon Used to Reduce PFAs and Chlorinated Solvent Concentrations in Groundwater to Below Detection Limits at a Michigan Army National Guard Site**

Ryan Moore, Regenesis

Camp Grayling in Crawford County, Michigan is a year-round training center for the Michigan Army National Guard. The Michigan Department of Military and Veteran Affairs (DMVA) have been remediating chlorinated solvents impact in the site groundwater from historical operations at the facility since the 1990's. In 2016, the DMVA became aware of the potential contamination of PFAS from historical operations such as onsite firefighting training activities and began testing. This presentation will review the project design considerations, field activities, and 3.5 years of post-application data. Additionally, the presentation will answer questions related to the distribution of the colloidal activated carbon in the subsurface and expected long-term efficacy at the site. This study indicates that an in-situ application of colloidal activated carbon is a viable alternative to the established remediation method of a high-cost pump and treat system to address the risk associated with PFAS contamination at the site.

BROWNFIELDS TRACK

Windgate 62-64

Moderator: *Jacob Rohter, MoDNR Brownfields/Voluntary Cleanup Program*

- **Financial and Technical Resource Assistance**

Maggie Egberts Belanger, KSU Tab Services Coordinator for EPA Regions 5 & 7, and Adrian Goettemoeller, U.S. Environmental Protection Agency

There are many different resources available to help with the brownfield redevelopment and revitalization process. From brownfield location and tracking, to assessment and remediation, and finally redevelopment. Several resources are aimed at local communities to help them improve their community, complimenting the brownfield redevelopment. This session will provide a brief description of several of the available partner resources and how they can help advance brownfield projects.

MONDAY, JULY 11

1:30 - 3:00 PM

CONCURRENT BREAKOUT SESSIONS (continued)

TANKS TRACK

Parasol II

Moderator: Ken Koon, MoDNR Tanks Section

- Application of an In-Well Remediation System in a Southern Missouri Drinking Water Aquifer**

Jose Zamora, Sunbelt Environmental Services, Inc.

A release of gasoline in rural southern Missouri resulted in petroleum hydrocarbons in onsite and off-site drinking water wells. Both wells were abandoned by pressure grouting with cement. An evaluation of remedial technologies led to the installation of an in well system designed by Accelerated Remedial Technologies, Inc (ART). The ART system was installed adjacent to the former on-site domestic well and consisted of a combination of in-situ air stripping, air sparging, vapor extraction, and subsurface circulation in a single wellhead system. After 16 months of operation, the concentrations of contaminates within the treatment well were reduced to below the applicable Risk Based Concentration Levels.

3:00 PM

Break with Exhibits

Paradise Ballrooms A, B

SPONSORED BY

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ELLIOTT EQUIPMENT*

3:30 - 5:00 PM

CONCURRENT BREAKOUT SESSIONS

SOLID WASTE TRACK

Moderator: Rob Loney, Republic Services

Nautical Wheeler Room

- **Using the Landfill as a Learning Lab - Talking Trash with the Community - Digging Deeper!**
Laurie Davis, City of Springfield Department of Environmental Services



During the 2021 session, City of Springfield staff described the process of developing a series of tools and resources for making various aspects and concepts of landfill design, construction and operation accessible to citizens of all ages. During the q/a, the question was asked "how do you help citizens understand the regulatory aspect of landfill operations?" We're glad you asked! This session will dig deeper into some of the common regulatory elements, and some ideas, strategies and demonstrations to consider incorporating to assist in increasing citizen understanding of these concepts. Air quality, erosion control and leachate will be highlighted.

- **Food Waste & Organics: Evolving Resource Recovery Practices**
Brian C. Weis, P.E., Burns & McDonnell Engineering Company, Inc.



In the new age of sustainability and climate action planning, food waste and more broadly, organic waste (OW) management are at the forefront of solid waste management issues. When OW reduction efforts are exhausted, communities are faced with determining highest and best use of these resources. Often, big challenges stand in the way of efficiently utilizing these resources, including those related to the source separation of organics, material collection and handling, contamination, end-use limitations, cost of service, and overall program support and implementation. Common end-use alternatives for utilizing OW on a large scale include composting and deriving energy from anaerobic digestion through biogas to energy or biogas upgrading to renewable natural gas (RNG), while less common uses such as animal feed require more customized diversion practices and procedures. This presentation will elaborate on the various alternatives and considerations for OW management and examine how local and national communities are implementing and maintaining OW programs.

- **The Power of Stakeholder Engagement in Implementing Political and Social Change in Environmental Programs**

Julie Davis, Burns & McDonnell Engineering Company, Inc.



Making improvements to a solid waste system must make financial and environmental sense, but to successfully implement, it requires social and political support. The identification of applicable stakeholders and ongoing engagement is critical during the planning processes all the way through implementation to provide a pathway of politically and socially supported change in a community. Engaging participants requires more than pushing out information, it requires collaboration on decision making and shared accountability and responsibility by all those impacted. This session will review time-tested and innovative options for stakeholder engagement and provide case studies from communities in and around the state that have successfully implemented changes to their environmental programs by maintaining consistent and constructive communication with their residents, businesses, regulators, employees, and elected officials.

MONDAY, JULY 11

3:30 - 5:00 PM CONCURRENT BREAKOUT SESSIONS (continued)

ENVIRONMENTAL ISSUES TRACK

Parasol I

Moderator: Bobbilynne Koepke, Environmental Works, Inc.

- **Remediation of an Odorant Spill**

Steven Donatiello, Spire Missouri Inc.

Odorant is a blend of chemicals used to odorize natural gas. It is used to identify leaks in gas supply systems as natural gas is odorless. The blend is formulated to quickly move through soils so leaks from below ground gas lines can be found. This characteristic along with its odiferous nature and associated odor complaints make a speedy response imperative. This presentation shows a well managed and innovative approach to a relatively minor release of this material.

- **Environmental Social Governance (ESG) Primer (Overview and Practical Guide)**

Michael Liebert, Trinity Consultants, Inc.

The growing shift toward 'decarbonization' and 'carbon commitments' has investors pressuring all types of industries to develop a climate strategy as part of ESG disclosure. This presentation will walk you through the basics of what ESG is all about and give a practical approach to setting up a robust ESG program.

- **ESS: A Stratigraphic Approach to Engineering Solutions**

Rebecca C. Warnken, Burns & McDonnell Engineering Company, Inc.

As the costs for remedial solutions and the related technologies continue to rise, identifying the best approach for remedial action is paramount. Environmental Sequence Stratigraphy (ESS), a revolutionary approach with its emphasis on using geologic context to understand the controls on groundwater contaminant migration as well as a focus on holistically analyzing data, is redefining how we approach site solutions. This presentation includes discussion of how utilizing ESS to further the understanding of hydrogeology is providing a pathway for prescriptive remedial solutions of impacted sites. Case studies from projects in Missouri and other regional sites will be examined.

BROWNFIELDS TRACK

Windgate 62-64

Moderator: Jacob Rohter, MoDNR Brownfields/Voluntary Cleanup Program

- **Communities, Government, and Consultants Working Together Successfully**

Chris Cady, Ph.D., MoDNR Brownfields/Voluntary Cleanup Program, and Anna Saindon, P.E., R.G., Ph.D., Geotechnology, LLC

This session will consider the dynamics of streamlining project success in collaborative circumstances. Public-private partnerships are increasingly common, and we will discuss key ingredients to moving projects forward from the perspectives of local government, private developers, environmental consultants, and BVCP staff. There will be ample opportunity for answering questions, project brainstorming, and open discussion amongst all attendees and partners.

MONDAY, JULY 11

3:30 - 5:00 PM CONCURRENT BREAKOUT SESSIONS (continued)

TANKS TRACK

Moderator: Ken Koon, MoDNR Tanks Section

- **DNR Website Q & A**
Heidi Rice, Missouri Department of Natural Resources
- **Anticipating the Unexpected**
Karen T. Rieken, P.E., Terracon Consultants, Inc.

A formal media management plan borrowing the concepts of the MDNR Beneficial Use of Petroleum Contaminated Soil can assist future construction activities at a site to not be stalled due to environmental impacts in the subsurface. The plan can provide direction and safety measures that should be taken at the site as well as a plan for disposal and reuse of materials.

5:00 PM

RECEPTION

Paradise Ballrooms A, B

Food, drink and games for the entire family. Casino games, silent movies, photo ops, and a costume contest.

SPONSORED BY GFL AND
ST. LOUIS COUNTY PUBLIC HEALTH



TUESDAY, JULY 12

7:30 AM	Registration and Exhibits Open Breakfast and "Meet and Greet" SPONSORED BY <i>MoDNR WASTE MANAGEMENT PROGRAM AND BARR ENGINEERING COMPANY</i>	Paradise Ballrooms A, B Paradise Ballrooms A, B
7:30 AM	SWANA Meeting (look for the reserved tables)	Paradise Ballrooms A, B

8:30 - 10:00 AM CONCURRENT BREAKOUT SESSIONS

SOLID WASTE TRACK

Moderator: Travis Doll, R.G., Jett Environmental Consulting

- Using GIS Platforms to Better Serve Your Projects and Clients**
Keith Connor, P.E., Terracon Consultants, Inc.

Nautical Wheeler Room



Terracon has two platforms which can be used in the siting, design, construction, and closeout phases of your projects. The Stage 1 platform was developed internally to make use of our internal geotechnical and environmental project history developed by recording project data from 40 years of geotechnical and environmental projects on a GIS platform. Terracon has a second GIS platform, PIVOT, for use for and by our utility clients. It accesses public and outside private data to show existing utility infrastructure for electric, pipeline and other utilities as well as civil design properties such as soils types, topography and ownership maps. Algorithms within PIVOT allow a designer to begin to build and test new infrastructure in a dynamic mode with leads to selection optimized proposed utility components.

- Creating Durable Concrete Floors for Your Solid Waste Facility**
Robert D. Swan, HD (Heavy Duty) Concrete Floors



Transfer Station tipping floors, digester processing areas and material recovery facilities eventually all have concrete floor problems that slow productivity. Deterioration comes from bucket loaders and chemical attack from organics and recyclables. Every tipping floor at Transfer Stations and Material Recovery Facilities and every processing floor at an anaerobic digester eventually wears out. This presentation discusses how to make those floors last longer and the options when they need to be repaired. It covers concrete mix design considerations for full depth construction as well as the pros and cons of high-performance toppings. Owners and managers tasked with keeping their facility running smoothly and efficiently should be interested in this presentation.

TUESDAY, JULY 12

8:30 - 10:00 AM

CONCURRENT BREAKOUT SESSIONS (continued)

ENVIRONMENTAL ISSUES TRACK

Parasol I

Moderator: Larry Lehman, MoDNR Land Reclamation Program



- **From Dish to Dirt: A Citizen-Focused Approach to Food Waste Reduction**

Ashley Krug, City of Springfield

In Springfield, organic waste represents the largest component of our collective municipal solid waste stream, with food waste accounting for over 12% every year. Building on existing community partnerships and tapping into Springfield's growing gardening and local food interests, our Dish to Dirt home composting program serves to educate and empower citizens to address food waste reduction starting in their own backyards. This session will discuss program development, funding, and future strategies for the City to take a multifaceted approach to reducing food waste at every level.

- **Decoding the ESG Equation**

Laura Drescher, P.E., Burns & McDonnell Engineering Company, Inc.

Sustainability has evolved over the last few decades from a broad environmental concept to a more focused and defined definition of ESG encompassing the Environmental, Social, and Governance practices of an organization. Many private companies feel the pressure from investors and consumers to disclose metrics related to ESG and set goals that align with science-based targets, even as state and local governmental entities, residents, local businesses, and elected officials are pushing for changes in regulations and long-range planning to address the impending impacts of climate change on their communities. This presentation will highlight the progression of the definition and inclusion of sustainability into our organizations, best practices for ESG disclosures and goal setting in a variety of areas, stakeholder engagement and materiality assessments to determine priorities and obtain support for impactful change, potential applicable regulations and funding opportunities, and successful implementation through a variety of efforts and appropriate parties. Both private and public sector examples will be provided as case studies.

- **A Roaring Tale of Beneficial Reuse and Waste Reduction at a Shooting Range Complex**

Mike Tuter, GREDELL Engineering Resources, Inc.



Ever wonder where all those lead bullets shot from Tommy guns back during the roaring 20s' ended up? Well, where they will not be is at the Perry Memorial Conservation Area in Johnson County, Missouri because those bullets are about to be recycled. This presentation will provide an overview of the assessment and proposed renovations of a Mid-Missouri shooting range complex focusing on the three R's of waste control: Reduction through comprehensive site characterization, Reuse (beneficial) of treated soils, and Recycling of lead and other metals. Lead can be a hazardous material or a valuable commodity when recycled properly. Learn how this shooting range will be renovated to a non-residential wildlife conservation area using strategic planning, best management practices, and the three R's.

TANKS TRACK

Parasol II

Moderator: Ken Koon, MoDNR Tanks Section

- **Plume Stability Issues**

Todd Birky, MoDNR Tanks Section

- **Tank Issues**

Laura Luther, MoDNR Tanks Section

TUESDAY, JULY 12

10:00 AM Break with Exhibits

Paradise Ballrooms A, B

SPONSORED BY

WSP GOLDER AND GEOSYNTEC

10:30 AM - 12:00 PM

CONCURRENT BREAKOUT SESSIONS

SOLID WASTE TRACK

Nautical Wheeler Room

Moderator: Doug Doerr, P.E., SCS Engineers

- **What We've Learned with Implementation of XXX and EG OOO**
Marilyn Engel, SCS Engineers



In May 2021, EPA issued a new Federal Plan to implement the Emission Guidelines (EG) for existing MSW landfills under 40 CFR Part 62, Subpart OOO (EG OOO). Landfills now must either comply with Subpart XXX or EG OOO. This presentation will review compliance requirements, compliance activities to date, and discuss critical issues and pain points that have been identified with the new regulations. This presentation will also briefly discuss termination of Title V permits after landfill closure.

- **Case Study, Leachate Volume Reduction through Enhanced Evaporation**



This will be a presentation of a case study of leachate reduction through the use of enhanced evaporation for volume controls. It takes the attendee through the use of enhanced evaporation to reduce leachate volumes, and explores data on dry aerosol pollution plume control as well as challenges for highly impacted leachate fluids and the handling of those fluids.

ENVIRONMENTAL ISSUES TRACK

Parasol I

Moderator: Gil Kauffmann, Heritage Environmental Services

- **Update on Legal Issues**
Steve Jeffery, Jeffery Law Group, LLC

This session will discuss recent cases and changes in laws and regulations affecting the waste industry.

- ## **ECHO, SNC, and Targeting Problem Facilities**

MDNR has a long history of digitally reporting inaccurate water information to US EPA's ICIS. They have been persistent in their efforts to remove and correct faulty data, which eventually shows up on the public-facing ECHO reporting system. A nationwide effort by US EPA to reduce facilities in SNC (significant non-compliance) motivated MDNR to take a big step, an effort that became known as "the great cleanse." Hundreds upon hundreds of faulty records were identified and removed...just in time for unfairly tainted facilities to escape new screening efforts to identify "problem facilities." A cautionary tale for those who are not monitoring what government websites are saying about you to the public.

TUESDAY, JULY 12

10:30 AM - 12:00 PM

CONCURRENT BREAKOUT SESSIONS (continued)

TANKS TRACK

Moderator: Ken Koon, MoDNR Tanks Section

- **Tank Closures - A General Guide to a Closure Report**
Darryl Slade, MoDNR Tanks Section
- **Tank Panel Discussion**

Parasol II

12:00 Noon

NETWORKING LUNCH

Paradise Ballroom C

Drawings, prizes and election results

SPONSORED BY

SCS ENGINEERS AND WASTE CONNECTIONS

1:00 PM - 2:30 PM

CONCURRENT BREAKOUT SESSIONS

SOLID WASTE TRACK

Nautical Wheeler Room

Moderator: Scott Martin, P.E., Burns & McDonnell Engineering Company, Inc.

- **Alternative Capping - LiteEarth Closure System**
Jorge Hernandez, Solmax (formerly GSE)



Presentation will cover 3 things - Introduction to LiteEarth - Benefits of an alternative capping - Case Studies of systems installed in 2021.

- **Choosing the Right BMP Based on Performance and Avoiding the Race to the Bottom**
Craig Shultz and Jeff King, American Excelsior Company



What are the differences between straw erosion control blankets and excelsior (wood) erosion control blankets? What are the differences between straw wattles designed to dam the water and excelsior (wood) logs that are designed to filter the water? This presentation will answer these questions and help users and specifiers better understand the best products to use on their projects.

- **Turf Reinforcement Mats (TRMs) with Recycled Fibers Help Contain Landfilled Fly Ash**
Craig Shultz and Jeff King, American Excelsior Company



Closing a coal power plant presents many challenges. One of them is protecting the integrity of the fly ash that was landfilled on site. What Best Management Practices (BMPs) make the most sense when it comes to long-term protection of vegetated channels with the potential for high flow events? All types of landfills have these sorts of challenges. This presentation will address the use of TRMs for these applications.

TUESDAY, JULY 12

1:00 PM - 2:30 PM

CONCURRENT BREAKOUT SESSIONS (continued)

ENVIRONMENTAL ISSUES TRACK

Moderator: Mike Viles, St. Louis County Department of Public Health

Parasol I



- **The Versatility of Clay-Based Adsorbents for PFAs Treatment**

Marat Goldenberg, P.E., Vadose Remediation, LLC

Clay-based adsorbents, such as FLUORO-SORB® Adsorbent, are highly effective at removing perfluoroalkyl and polyfluoroalkyl substances (PFAS) from a variety of water types. Clay-based adsorbents are manufactured by modifying the surface of sodium bentonite with organic functional groups that have a high affinity for PFAS. The plate-like crystalline structure of the clay is loaded with the organic functional group, which is then attached to the mineral surface to form adsorptive inter-platelet layers or galleries. The presence of the organic functional groups displaces exchangeable cations like sodium and calcium from the clay, which eliminates swelling when hydrated. The resulting material has a large surface area available for adsorption of PFAS via electrostatic and hydrophobic mechanisms. Fluoro-sorb Adsorbent has been investigated in the laboratory and in the field, with a variety of PFAS chain lengths and concentrations, and has demonstrated the ability to remove PFAS to non-detect concentrations in a variety of matrices. The media is resistant to the detrimental effects of water constituents, like dissolved organic carbon and anions, on PFAS adsorption and provides fast adsorption kinetics. In addition to a filtration media, Fluoro-sorb Adsorbent can be used for subsurface treatment of PFAS, as well as for sediment capping. Results from treatment of PFAS in soil, groundwater, drinking water, and landfill leachate will be presented.

- **Thermal Remediation of PFAs Contaminants**

Marat Goldenberg, P.E., Vadose Remediation, LLC



Recent studies have shown that our patented TCH technology can be an effective treatment for poly- and perfluoroalkyl substances (PFAS). The need for remediation of PFAS is growing substantially because of increased regulatory attention to this emerging contaminant. Laboratory studies have shown that TCH technology delivers better than 99.99% removal of PFAS contaminants from soil. Soil samples from an aqueous film-forming foam (AFFF) handling facility, containing initial PFAS concentrations close to 200 mg/kg, were tested in a laboratory-scale treatability study. The soil was heated to temperatures from 250°C to 500°C and soil samples, as well as vapor and condensate samples, were collected for analysis during and after the study. The studies were designed to simulate the removal of PFAS during TCH full-scale treatment either in situ or ex situ using a pile thermal desorption system.

2:30 PM Conference adjourns

KEYNOTE SPEAKERS

Plenary Speaker Monday, July 11

AMY MEIER

**Stream Team Coordination Biologist
Missouri Department of Conservation**



Amy is a Kansas State University alum with a Bachelor of Science in Wildlife and Fisheries in 2001, and currently resides in Columbia, Missouri. She has worked for the Missouri Department of Conservation since 2004 and has served the Stream Team Program from the Jefferson City MDC Headquarters since 2008. Her current duties include connecting with and coordinating Stream Team volunteers in the Northeast, Saint Louis, Southeast, and Central regions of Missouri.

She serves as the editor for the Stream Team newsletter, Channels, as well as serving as the communications and social media contact for the Program. Amy very much enjoys it when people ask her to identify strange insects and is an avid paddler, floater, and explorer of any and all Missouri streams.

Luncheon Speaker Monday, July 11

DENISE COOGAN

**Environmental Partnership Manager
Subaru of America, Inc.**

Denise is a recognized leader in zero waste programs. Denise has worked for over 20 years developing the principles that are the basis of most of the zero waste programs that are in existence today. She uses her extensive knowledge of manufacturing facilities to build sustainability programs that reduce the collective environmental footprint and at the same time balance, fiscal responsibility. The zero - landfill program that Denise spearheaded has won several awards, including the international Gro Brundtland Sustainia Award for developing a solution that will build a more sustainable future.



Denise has developed a stellar reputation as having one of the most influential and inspiring voices on the lecture circuit, mentoring organizations around the globe to begin or enhance their sustainability programs. Through Denise's efforts more than 1,000 companies have reduced the amount of waste they generate and have diverted countless tons of waste from the landfills. Her recent work with the National Park Service will help usher in an era of lasting practices that will change how the park units look at their sustainability efforts. Denise holds professional certifications as a Registered Environmental Manager (REM) and a Certified Hazardous Materials Manager (CHMM). She has an Undergraduate Degree in Biology and a master's degree in Sustainable Development and Policy from the University of Illinois at Springfield.

SPEAKERS and MODERATORS

Suzanne Bailey, R.G., PG

Suzanne has been working in the environmental consulting field since 1993. She is a registered professional geologist in Missouri and is also licensed in Kansas, Nebraska, Illinois, and Arkansas. She joined Environmental Works, Inc. in 2015 and currently manages the remediation department in EWI's Kansas City, Missouri office.

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Robert Ballantyne

Robert served the United States as a United States Marine. He is an electrical engineer with his follow-on education concentrating on Molecular and Atomic spectroscopy. His body of science research focuses on environmental monitoring, mitigation, and remediation systems design, with an emphasis on waste stream reduction. His current role as Senior Vice President for RWI Enhanced Evaporation has allowed him to pursue the raw scientific research into ways to fundamentally change environmental mitigation and pollution control markets and methods.

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Maggie Egbarts Belanger

Maggie is the Assistant Program Director for the Technical Assistance to Brownfields Communities (TAB) Program at Kansas State University. She assists communities, Tribes, and local governments overcome environmental challenges associated with reuse or redevelopment of brownfields properties and manages a suite of E-Tools, including the Brownfields Inventory Tool (BiT) and TAB EZ. Maggie has a Bachelor's in Environmental Studies and 19 years of experience in environmental assessment, cleanup, regulatory compliance and property revitalization; encompassing public speaking, community engagement, project management, technical guidance and policy development, and applying for and managing federal grants.

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Todd Birky

Todd has been an Environmental Specialist in the Environmental Remediation Program at MoDNR since 2017. Todd attended the Missouri University of Science and Technology where he obtained a Bachelor of Science in Geology and Geophysics. Post degree work history includes a short stint on a seismic survey crew in southern Oklahoma and west Texas before being introduced to the environmental consulting field. Todd has over 15 years of experience both in the private sector and with the State, working with underground storage tank sites, performing site characterization, risk assessment, corrective action, and general project oversight.

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Chris Cady, Ph.D.

Dr. Cady has been with the Voluntary Cleanup Section of MoDNR since 1997. He oversees risk-based cleanup of brownfield and voluntary cleanup sites as a Project Manager. As an Environmental Scientist, Dr. Cady also works on special projects including the development of program policies and the Missouri Risk-Based Corrective Action Guidance. He received a Bachelor's degree in chemistry from the New Mexico Institute of Mining and Technology, and Masters and Doctorate degrees in Environmental Chemistry from the University of Missouri – Columbia.

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Keith Connor, P.E.

Keith serves in the Environmental Department in Terracon's Lenexa, Kansas Office. He graduated from the University of Notre Dame with a Bachelors of Science Degree in Civil Engineering and an MBA from the University of Kansas. He has (just) over 40 years of experience in the environmental field, designing wastewater, solid waste, renewable energy, transfer stations HHW facilities and landfill gas and coal bed methane gathering systems around the United States and overseas. In recent years he has focused on identifying and remediating environmental contamination on sites related to transactions through Phase I ESA's, Phase II assessments, SWPP Plans, SPCC Plans, Environmental Protection Plans, and working with MDNR's B/VCP and KDHE's VCP. Keith is a Past President of the MWCC and currently serves on its Advisory Board.

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Robert W. Craggs

Robert serves as the Solid Waste and Resource Recovery Technical Services Leader for Burns & McDonnell. He has worked in the environmental consulting field for more than 30 years providing assistance to public and private clients throughout North America in the areas of waste management, recycling, water resources, and renewable energy. Robert has a Master's in Environmental Policy and Planning and a J.D. of Law from the University of Iowa. He is an Advisory Board Member for the International Solid Waste Association of North America, Board Member for the Recycling Association of Minnesota, and Chair of the Lower St. Croix Valley Community Foundation. He resides in Lakeland, Minnesota where he currently serves as a City Council member.

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SPEAKERS/MODERATORS

Julie Davis

Julie has 14 years of experience in solid waste and hazardous waste program management, planning, policy development, and community engagement. Prior to joining Burns & McDonnell, she managed a local solid waste program responsible for regulatory oversight at regional municipal solid waste facilities and she managed a permanent, year-round hazardous materials collection facility. Since joining Burns & McDonnell, she has performed solid waste planning projects focused on increasing diversion through innovative, community-supported, and sustainable approaches. Julie utilizes her 12 years of public sector experience to assist communities with their program needs leveraging her unique experience with project implementation. She has a Bachelor of Science in Environmental Science and a Professional Science Master's in Environmental Assessment.

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Laurie Davis

Laurie is the Education Outreach Coordinator for the Environmental Services/Sustainability Division in the city of Springfield. She has been in the field of both formal and informal education for over 30 years. Laurie has a BA and MA in Education. She believes every day is an adventure and an opportunity to learn something new! Laurie lives in Nixa, Missouri with her husband Keith and two very spoiled cats. Walking, kayaking, fishing and sitting on the front porch swing are a few favorite activities.

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Doug Doerr, P.E.

Doug is a Senior Vice President of SCS Engineers at its Overland Park, Kansas office and is responsible for directing operations in the Central region of the United States. He has been involved in a wide variety of environmental projects with particular emphasis on waste management. His project experience includes landfill permitting and design, environmental compliance; economic and feasibility studies, and various types of material management facility planning, permitting and design. Doug has also been instrumental in developing client strategies to address various regulatory and other complex environmental issues including facility feasibility/siting and response plans to new legislative and regulatory directives. He directs projects involving various facets of environmental engineering and consulting including air permitting and compliance, traditional civil engineering, alternative energy planning and implementation, and environmental investigation and remediation. He has a Bachelor's degree in Civil Engineering and a Master's degree in Business Administration. He is a licensed Professional Engineer in Colorado, Kansas, Illinois, Missouri, Nebraska, and New Mexico.

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Travis Doll, R.G.

Travis is a Senior Geologist who has more than 24 years of experience including a combination of environmental consulting and environmental public health. At Jett Environmental Consulting, he provides groundwater statistical analysis reporting, alternate source demonstrations, and environmental compliance services for waste management facilities in detection monitoring, assessment monitoring, and corrective action. His consulting experience includes managing and performing detailed site investigations for sanitary and coal combustion residual landfills in varying geologic conditions, groundwater sampling program management, and environmental site investigations/reporting for numerous private industrial and public clients. Travis earned his Bachelor of Science degree in Geology at University of Central Missouri (formerly Central Missouri State University) in 1997.

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Steve Donatiello

Steve is an Environmental Engineer with Spire Missouri, Inc. He has degrees in Chemical Engineering and Business Administration and has over 40 years of environmental engineering experience.

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Melissa Dowling

Melissa is part of the Site Investigation and Remediation Department in Terracon's Lenexa, Kansas Office. She graduated from the University of Missouri – Kansas City with a Bachelor's Degree in Geology. She has 20 years of experience in the environmental field and has provided services to municipal, commercial and industrial clients under a variety of federal and state programs in Kansas, Missouri, Arizona, and Texas. These include underground and leaking underground storage tanks (UST/LUST) evaluations, site remediation, Phase I ESA's as an environmental professional, Phase II assessments, LECA, SWPP Plans, SPCC Plans, compliance audits, and remedial excavation and groundwater plume remediation activities including contact with federal, state, and local environmental regulatory agencies and insurance funds, and applicable permitting, including working towards closure through the risk-based assessment programs in Missouri, Kansas, and Arizona.

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SPEAKERS/MODERATORS

Laura Drescher, P.E.

Laura offers a broad range of environmental consulting services in the areas of materials management, water resources, and renewable energy and leads Burns & McDonnell's ESG/Sustainability Technical Service Area. Her solid waste consulting experience includes master planning and solid waste/recycling collection, processing and disposal procurement, and operational reviews for local governments. She is also a Professional Engineer and has extensive experience in the permitting, design, and construction of solid waste and industrial facilities. She has served in multiple leadership roles for the Kansas and Missouri Chapters of the Solid Waste Association of North America and the Missouri Waste Control Coalition.

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Marilyn Engel

Marilyn is a an environmental professional at SCS Engineers with over four years of experience. Her focus has been in air permitting and compliance reporting under NSPS and NESHAP, groundwater monitoring, and landfill gas design. She has supported numerous private and public clients throughout the Midwest. Marilyn holds a B.S. in Atmospheric Science from the University of Missouri-Columbia and a M.S. in Atmospheric Chemistry from Georgia Institute of Technology.

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Adrian Goettemoeller

Adrian is a Region 7 U.S. Environmental Protection Agency (USEPA) Project Officer and Brownfields team member. He has worked for the USEPA for one year, and has 12 years of environmental experience with the Kansas City and Omaha U.S. Army Corps of Engineers (USACE) Districts. He has extensive experience with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) including remediation of TCE plumes and petroleum contamination. He has also worked for the Kansas Department of Health and Environment (KDHE), and private industry as a geologist. Adrian graduated from the University of Iowa in 2000 with a M.S in Geology, and from Northwest Missouri State University with a B.S. in Geology (1997).

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Marat Goldenberg, P.E.

Marat is the owner and Midwest Technical Sales Representative for environmental products and services for Vadose Remediation LLC. He is a licensed Professional Engineer with over 10 years of experience in the environmental remediation industry. Prior to this role, Marat worked as a Senior Environmental Engineer consultant on remediation projects and has extensive experience with evaluating remedial alternatives, design, and construction oversite.

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Jessie Goodwin, P.E.

Jessie is a Senior Engineer with Geotechnology, LLC. She takes on a variety of projects from due diligence to long term monitoring, but especially prefers managing, interpreting, and communicating interesting datasets.

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Jorge Hernandez

Jorge has a degree in Civil Engineering from Purdue University. He's been in technical sales for eight years. He has been with Solmax for three years and will help with any technical questions. His territory entails 10 states in the US, Central Canada and all of Latin America.

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Jenny Holt

Jenny is a System Specialist I for Weaver Consultants Group. She has been with WCG for nine years and specializes in storm water, groundwater, and flare testing. In her free time she enjoys spending time with her grandkids, hunting, fishing, and hiking.

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Scott Huckstep

Scott is a Section Chief with the MoDNR. He has a Bachelor of Science degree in Biological Sciences from Quincy University (IL) and a Master's of Science degree in Fisheries & Wildlife Science from the University of Missouri-Columbia. Scott has been with the MoDNR since 1997 and is currently the Section Chief of the Brownfields/Voluntary Cleanup Program.

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Derek D. Ingram, P.E., RG, PG

Derek is a Senior Project Manager and Midwest Operations Manager at Loureiro Engineering Associates (formerly XDD Environmental) in the St. Louis office. He has 30 years of environmental consulting experience with an emphasis in remedial design for the utility industry, with an extensive background in manufactured gas plant sites in the areas of site characterization, remedial design, and construction management. He is currently focusing on in-situ technology utilization for strategic site closures on a wide range of environmentally impacted sites, to include but not limited to, surface water and groundwater metals remediation at former mines and ash ponds, chlorinated solvents in both soil and groundwater, and MGP residual polishing after large scale cleanups. Derek has a Bachelor of Science in Geological Engineering from the Missouri University of Science and Technology and is both a licensed professional engineer and geologist in multiple states.

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SPEAKERS/MODERATORS

Stephen Jeffery

Steve has over 35 years' of experience in environmental law, environmental litigation, environmental due diligence, and transactional matters. He serves as outside environmental counsel for several corporate clients. Steve represents clients in enforcement, permitting, and regulatory matters before Federal and State agencies, has litigated civil and criminal cases in Federal and State courts throughout Missouri and Illinois, and has successfully argued several appeals before the Missouri Supreme Court, the three Missouri Courts of Appeal, and the U.S. Seventh Circuit Court of Appeals. Formerly the General Counsel at the Missouri Department of Natural Resources from 1987 to 1993, Steve provides unique insights into the workings of the agency, and his experience often allows for creative solutions to the resolution of complex environmental issues.
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Gil Kauffmann

Gil is employed with Heritage Environmental Services, Inc. He was an Account Manager with 1st Ayd. Prior to that, he was an Account Manager for Environmental Energy, and Field Services Account manager for Clean Harbors Environmental Services covering Missouri and Southern Illinois. He has a degree in Biology with a background in Chemistry from the University of Missouri – St Louis. He has 26 years of experience in the field of hazardous waste clean up and disposal. Gil started out as a field analyst performing lab packs, drum disposal, tank cleaning, and small remediation projects. The past 20 years Gil has been in sales/marketing positions.
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Jeff King

Jeff is employed by American Excelsior Company - Earth Science Division - Arlington, Texas, as the Division Territory Manager since 2008. He has been involved in the planning and execution of numerous construction projects through the years. These projects include Pipeline Right of Way, Frack Tank Builds, Oil Rig Drill Pads, Residential, Commercial, Highway, and Linear Utility projects. Jeff is in the process of obtaining his CPESC Certification. He is currently serving on the Board of Directors for the South-Central Chapter of the International Erosion Control Association as the Vice President of Marketing.
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Bobbilynne Koepke, R.G.

Bobbilynne is a Missouri native with 16 years of experience in the environmental field. She has been with Environmental Works, Inc. for the past 12 years and is a licensed geologist in Missouri and Arkansas. She graduated from Missouri State University with her bachelor's degree in 2003 and obtained her master's degree from the University of New Orleans in 2006. Her areas of expertise include investigation and remediation of petroleum, chlorinated hydrocarbon, and lead impacted sites; vapor intrusion mitigation; ecological assessments; and karst environments.

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Ken Koon

Ken began with the MoDNR in 1999 as a Remediation Project Manager in the Tanks Section. He then worked in the department's Brownfields Voluntary Cleanup Program (BVCP). He became the Tanks Section Chief in 2005. He received his B.S. and M.S. in Biology from Pittsburg State University. Ken is former Vice-Chair of the UST Task Force for the Association of State and Territorial Solid Waste Management Officials (ASTSWMO) and has participated on the National Tanks Conference Planning Team. He also participates on the Advisory Board for the Petroleum Storage Tank Insurance Fund and is Vice President of the Missouri Waste Control Coalition.

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Ashley Krug

Ashley has served as the City of Springfield's Market Development Coordinator for the Sustainability Division of the Department of Environmental Services for the past eight years and holds a Master's Degree in City Planning. In her job Ashley gets to "talk trash" working to integrate strategies towards waste reduction and diversion from the landfill and sustainability programming for City operations.

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Larry Lehman

Larry is the Program Director of the MoDNR Land Reclamation Program and Staff Director of the Missouri Mining Commission. He also serves as the state's delegate with the Interstate Mining Compact Commission. He has been with the department since 1993 and has served in a variety of positions in the department's Solid Waste Management Program Compliance/Enforcement Section; Environmental Services Program Environmental Emergency Response and Water Quality Monitoring Sections; and the Hazardous Waste Program Compliance/Enforcement Section. Larry graduated with a Bachelor's of Science degree in Fisheries and Wildlife from the University of Missouri-Columbia.

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SPEAKERS/MODERATORS

Aaron Libbert

Aaron is Fiscal Manager of the Missouri Department of Natural Resources and has been with Department for 10 years. He has the ability to lead and partner with cross-functional teams, build/maintain productive relationships with internal and external partners, undertake new or unique challenges, and incorporate/maximize use of technology for increased efficiency and effectiveness. He has superior team building and interpersonal communications skills. Aaron has a BBA in Business/Management with emphasis in Finance from Lincoln University. He is a member of the MWCC advisory board. aaron.libbert@dnr.mo.gov

Michael Liebert

Michael is a principal consultant in Trinity's St. Louis, Missouri office. He specializes in ESG/Sustainability, regulatory applicability analysis, preparation of emission inventories, Title V operating permit applications, Maximum Achievable Control Technology (MACT) compliance, State Construction Permitting, and Toxic Release Inventory (TRI) reporting. Since joining Trinity 11 years ago, he has assisted in projects for facilities across the country including Missouri, Illinois, Pennsylvania, Oklahoma, Ohio, Colorado, Kentucky, and Arkansas. Michael earned a Bachelor of Civil/Environmental Engineering from the University of Kentucky and a Master of Engineering Management from Washington University in St. Louis.

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Rob Loney

Rob is Manufacturing and Environmental Services Executive for Republic Services in Lenexa, Kansas. He has a Bachelor's degree in Psychology from the University of Colorado – Boulder. Rob serves on the MWCC advisory board.

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Laura Luther

Laura began with the MoDNR in 2004 as a Remediation Project Manager in the Tanks Section overseeing tank cleanup projects. In 2007 she accepted the position of Tanks RBCA Unit Chief. Prior to working for the Department, Laura was a Laboratory Manager at an environmental lab for six years. Laura received her Bachelors of Science Degree from the University of Missouri - Rolla and a Masters in Adult Education and Distance Learning from the University of Phoenix.

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Frank Marine

Frank has a BS in Chemical Engineering. He has 34 years of experience in hazardous waste management, 17 years with Texas Molecular, including 14 years as its President. Frank has shared his experience by presentation of papers to state and industry organizations on underground injection and PFAS. Texas Molecular has safely managed about 80 million gallons of hazardous and non-hazardous aqueous waste with PFAS in the past 4 years.

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Scott Martin

Scott works as a design engineer and project manager in the Environmental Engineering Group at Burns & McDonnell. He provides a multi-disciplined approach to solid waste engineering, with experience performing civil and mechanical design work. His specialties include: solid waste facility permitting, design and construction; solid waste and resource recovery planning; coal combustion residuals management; air and greenhouse gas regulatory compliance; special waste facility design and management; landfill gas power plant design; landfill gas collection system design; landfill gas beneficial utilization; and greenhouse gas compliance. Scott is a past president of the Missouri Waste Control Coalition and a member of the MWCC advisory board.

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Mark Milward, R.G.

Mark has been Program Manager for St. Louis County's Department of Public Health – Environmental Services for the past eight years. Prior to that, Mark served over 30 years as an environmental engineering consultant heavily involved in underground storage tanks, landfills, and Brownfields. Mark is a Registered Geologist with degrees in geology and geological engineering from University of Missouri – Columbia and University of Missouri – Rolla, respectively. He is on the MWCC advisory board.

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Ryan Moore

Ryan has more than 19 years of experience as an environmental project manager and laboratory account executive relating to multimedia contamination sites throughout the U.S. His experience focused on in-situ groundwater and soil treatment, site investigations, corrective action evaluations, operation and maintenance of remediation systems, large soil removal remedial projects, vapor intrusion assessments, and environmental laboratory operations such as QA/QC evaluations, data interpretations, and business development. He has also presented at multiple conferences on in-situ remediation including events hosted by Battelle, AIPG, and other environmental associations. Ryan holds a B.S. of Environmental Studies from Manchester College, North Manchester, Indiana.

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SPEAKERS/MODERATORS

Nicolas Paul

Nick is a 20 year veteran of the U.S. Army where he was trained on heavy equipment. Upon retirement Nick went to work for the City of Columbia in 2004 as Landfill Supervisor in charge of the landfill and the Material Recovery Center. He was later promoted to Collection Superintendent in charge of the daily collection of daily trash and recycling. Nick is currently in charge of the Material Recovery Center and the Administrative Staff. During his time at the City landfill, Nick was responsible for DNR reports, landfill inspections and processing material and sending material out for bids. Nick is on the MWCC board of directors, as well as the SWANA board. He has been with the City of Columbia for over 18 years. He has a Bachelor's degree in Criminal Justice Administration from Columbia College, and a Master in Business Administration from William Woods University. napaul@gcolumbiamo.com

Kevin Perry

Kevin is Assistant Director at REGFORM, a Missouri business association focused entirely on state environmental regulations and policies. He is a registered lobbyist and holds a BS degree in biology. He has over 25 years of experience, including work as a biologist at US EPA Office of Water. He sings in the choir at church. kperry@regform.org

Heidi Rice

Heidi serves as the Web Content Coordinator for the Missouri Department of Natural Resources. She is the department's Office of Communications team member with ultimate responsibility for the department's website. In August 2021, the MoDNR launched a renovated website and was the project manager responsible for overseeing the redesign and development. She worked with the communications team to restructure and reorganize the website and build webpages. She is responsible for the continued maintenance and development of the website structure and training new department team members on their assigned responsibilities. She also assists the communications team update information provided on the website. Heidi began her career with the department more than 20 years ago, as an environmental specialist investigating Superfund sites. Most recently she served as the Community Involvement Coordinator for the department's Waste Management Program, where she was responsible for public involvement regarding hazardous waste permitting and cleanup activities, including managing hazardous waste permit-related webpages on the department's website. Heidi earned her Bachelor of Art's degree in biology and psychology from Drury University, in Springfield, Missouri. heidi.rice@dnr.mo.gov

Karen T. Rieken, P.E.

Karen received her Bachelor of Science in Civil Engineering from Washington University/University of Missouri-St. Louis and is a Professional Engineer in Missouri, Illinois, and Kansas. She is the Site Investigation Group Manager in Terracon's St. Louis, Missouri Office. She has 23 years of experience in the environmental field and has provided services to municipal, commercial and industrial clients under a variety of federal and state programs throughout the United States, United States Virgin Islands, and Canada. These include underground and leaking underground storage tanks (UST/LUST) evaluations, site remediation, Phase I ESA's as an environmental professional, Phase II assessments, NEPA, SWPP Plans, SPCC Plans, compliance audits, and remedial excavation activities including contact with federal, state, and local environmental regulatory agencies and insurance funds, and applicable permitting, including working towards closure through the risk-based assessment programs in Missouri and Illinois.

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Jacob Rohter

Jacob joined the Missouri Department of Natural Resources in 2013, where he now works as an Outreach Coordinator for the Brownfields Voluntary Cleanup Program. He helps Missouri communities redevelop underutilized or potentially contaminated properties by connecting needs to available resources. Jacob moved to Rolla in 2011 after receiving a degree in Environmental Science from Washington University in St. Louis. When not on the job, you might find him tinkering in his workshop, paddling on the river, or daydreaming of buying a dusty old warehouse full of ancient bicycles.

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Anna Saindon, P.E., R.G., Ph.D.

Anna is Senior Project Manager at Geotechnology, Inc. in St. Louis, Missouri. She has experience in environmental projects from leaking underground storage tanks to Superfund sites in Missouri and Illinois. Her specialties are coal ash pond closures and hydrogeology. She often works on groundwater assessments and groundwater modeling and statistical analysis for waste disposal units. Other areas of experience include geotechnical projects as large as 220 MGD ethanol plants, landfill design and construction, and seismic studies. Her range of experience allows her to work on complex and multidisciplinary projects efficiently. Anna has a BS, MS and PhD in Geological Engineering from Missouri University of Science and Technology.

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SPEAKERS/MODERATORS

Craig Shultz

Craig is employed by American Excelsior Company - Earth Science Division - Arlington, Texas, as the Business Development Manager. He graduated from the University of Kansas. He has worked on numerous E&S control projects and has experience with rolled erosion controls blankets, Turf Reinforcement Mats, hydraulic mulches, Alternative Daily Landfill Cover and other erosion and sediment control products. He is an active member of ASTM where he serves as the Chairman of Task Group D18.25.08 (Sediment Control). Craig participates in the Erosion Control Technology Council (ECTC). In addition, he is an industry member on the National Transportation Product Evaluation Program (NTPEP) Technical Committee on Erosion Control Products and Sediment Retention Devices.

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Darryl Slade

Darryl is the Closure, Release and Investigation Unit Chief with the Underground Storage Tank's Section within Missouri Department of Natural Resources. He earned a B.S. in Agriculture from Kansas State University. Prior to joining MoDNR in 2018, Darryl worked over 28 years with the MO Department of Agriculture. Some of his duties at MoDNR include overseeing closure of UST tanks.

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Brady Stewart

Brady has 15 years of experience in the solid waste industry, between consulting and working for the industry. He is currently support for landfill managers, transfer stations, and hauling companies in Missouri, New Mexico, Illinois, and Iowa.

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Robert D. Swan

Bob has over 35 years of concrete industry repair and restoration experience. He has an extensive background in concrete mix design and formulation of materials used in extreme high wear environments. His current responsibilities include national support for heavy duty and industrial flooring and technical support for concrete infrastructure repair. He is a long-time member of the American Concrete Institute and has served on several national committees for the International Concrete Repair Institute, including the Materials and Methods Committee. Bob is a current member of SWANA and focuses on improving the durability of concrete floors used in the Solid Waste Industry. Bob has a Bachelor of Science degree in Chemistry from Eastern Michigan University and received an MBA (marketing focus) from Baldwin Wallace in Ohio.

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Taylor Thompson

Taylor is a Staff Engineer for Weaver Consultants Group. She has six years of solid waste experience. She started out at MO DNR-WMP in the permits unit for four years and transitioned to consulting and has been with WCG for two years and specializes in landfill design. In her free time she travels, reads, and hikes.

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Benjamin Tucker

Ben is the roaming landfill manager of Champ and Timber Ridge Landfills in Missouri, and West End Landfill in southern Illinois. Instead of slowly and steadily, since 2015 Ben has progressed through the Waste Connections family quickly and out-of-control, beginning at and running three of the four largest landfills that Waste Connections owns in the Midwest. Ben's approach to landfill aesthetics and operations are unmatched, and he's still one of the younger landfill managers in the company.

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Mike Tuter

Mike is a Civil/Environmental Engineer with GREDELL Engineering Resources, Inc. He has a B.S in Civil and Environmental Engineering with over 14 years of experience in the State Public Works and Private Consulting sectors. His areas of expertise include Site Development, Mass Grading, Infrastructure, Stormwater, and CAD Design Tools.

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Mike Viles

Mike is employed with the St. Louis County Public Health. mviles@stlouisco.com

Rebecca Warnken

Rebecca joined Burns & McDonnell as a staff environmental engineer in 2018. She attended Kansas State University before spending time as a Drilling & Measurements Engineer in Malaysia and Louisiana. She then began working in the consulting industry as an environmental engineer in 2012. Rebecca currently provides professional engineering services on solid waste projects, remediation sites, oil and gas industry sites and construction sites where stormwater design is required. She is a member of the MWCC advisory board.

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SPEAKERS/MODERATORS

Brian C. Weis, P.E.

Brian is a civil engineer and project manager in the Environmental Services group at Burns & McDonnell with over 21 years of industry experience. His early experience as a resident engineer on heavy construction projects provided him the background to evaluate practical solutions. Brian has provided clients comprehensive landfill design, solid waste, and permitting services for over 10 years. He has led major and minor permit modifications through MDNR and other state agencies, cell and final cover designs, and CQA activities and reporting. Brian has developed landfill master plans & performed solid waste studies and solid waste program evaluations.

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Anastasia Welch, P.E.

Anastasia is a Solid Waste Services Practice Area Leader with SCS Engineers in Overland Park, Kansas. She has over 21 years of experience focused almost entirely on the solid waste industry. She completes work for both private and municipally owned landfill facilities, including such things as groundwater monitoring and evaluation, landfill design and permitting, CQA oversight, air compliance issues, volume calculations, and alternative cover design. She holds a B.S. in Civil and Environmental Engineering from the University of Missouri-Columbia. She is a Past President of the MWCC and a member of the Advisory Board.

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Keith Winge

Keith has been a part of the Missouri Main Street team since 2013 as the State Community Development Coordinator. He works with Missouri communities to organize, develop and grow their Main Street program. Before joining Missouri Main Street, Keith was a founding board member and then the first Executive Director for the Main Street program in Excelsior Springs where he resides. When he is not traveling the state, you can find him running 5Ks, gardening or cooking and eating good food.

kwinge@momainstreet.org

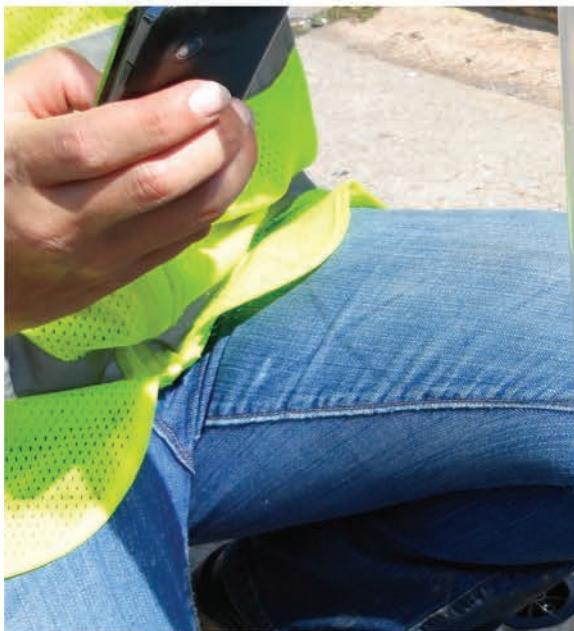
Jose Zamora

Jose served as a U.S. Army NCO and was awarded the purple heart medal. Jose received his Bachelor of Science in Geology from Missouri State University in 2018. He is a staff geologist/environmental consultant with a land surveying and computer design background. He has been working for Sunbelt Environmental Services, Inc. for over three years. Some of his responsibilities are to analyze environmental conditions, collect groundwater, air, and soil samples, and generate reports for assigned projects. He also has a drilling permit which allows him to install and decommission monitoring wells in the state of Missouri.

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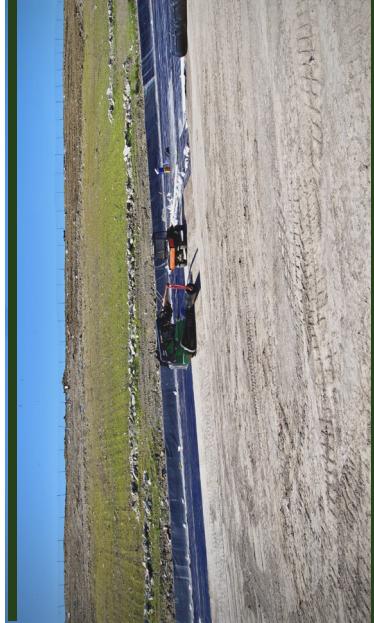
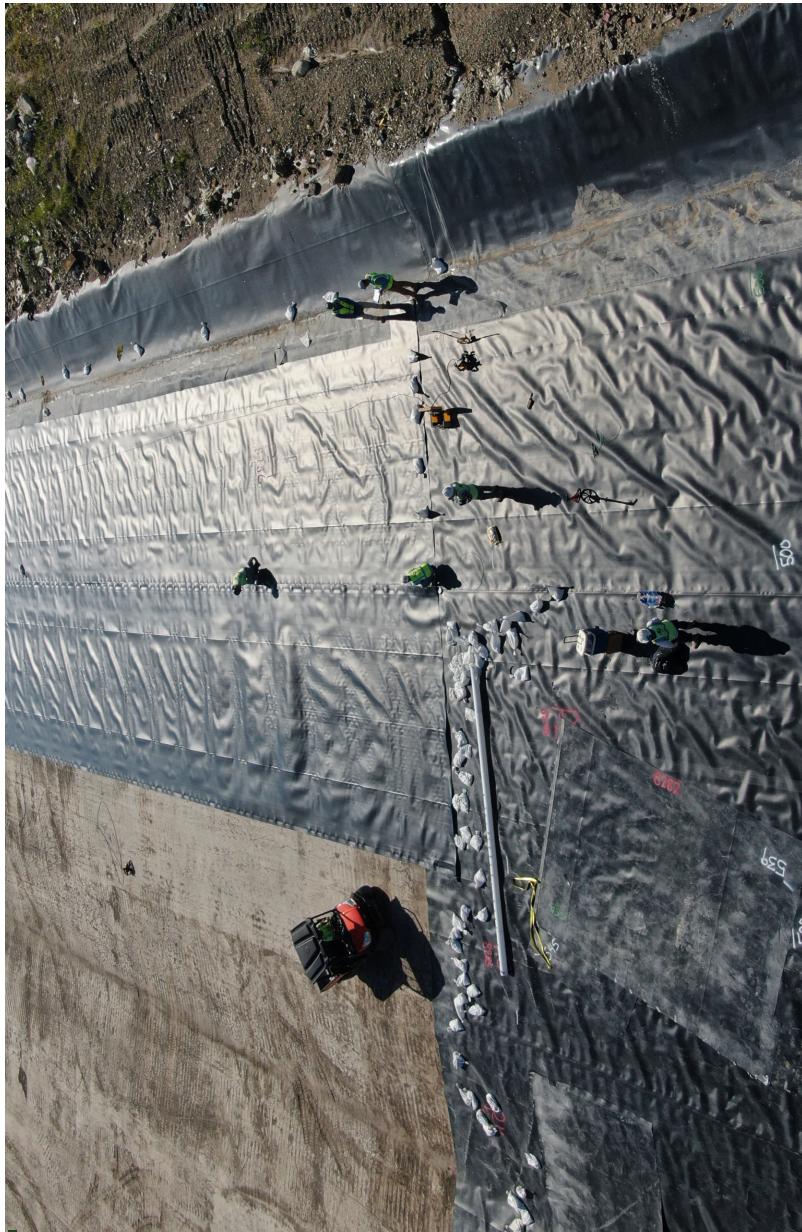
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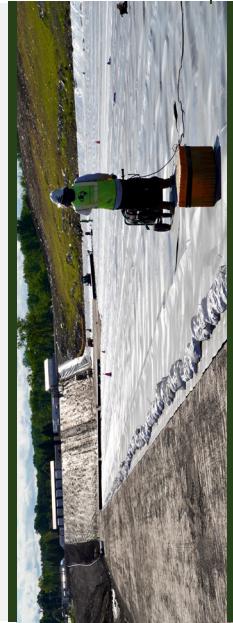
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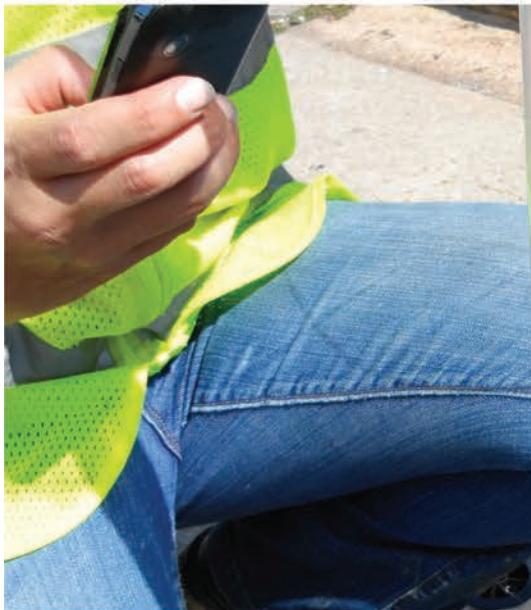
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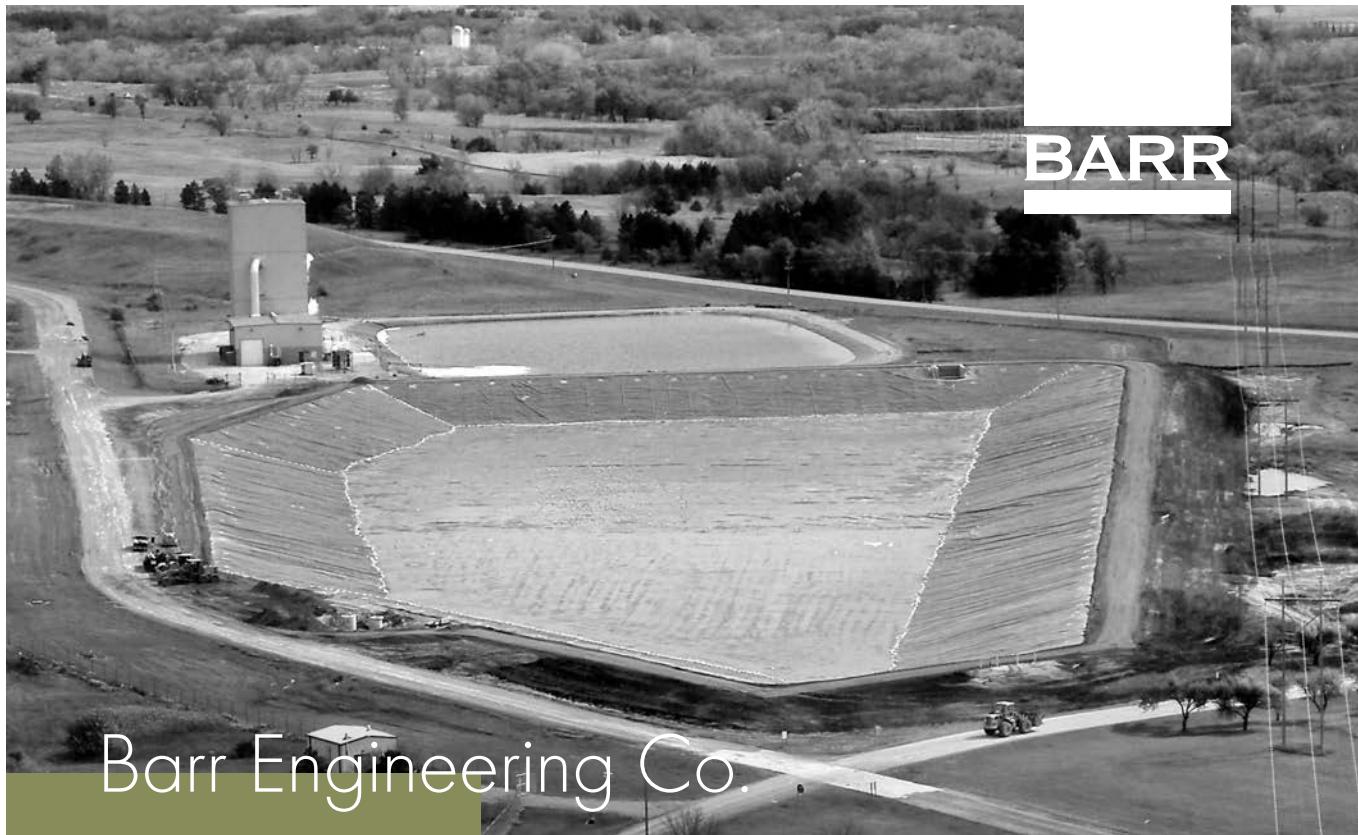
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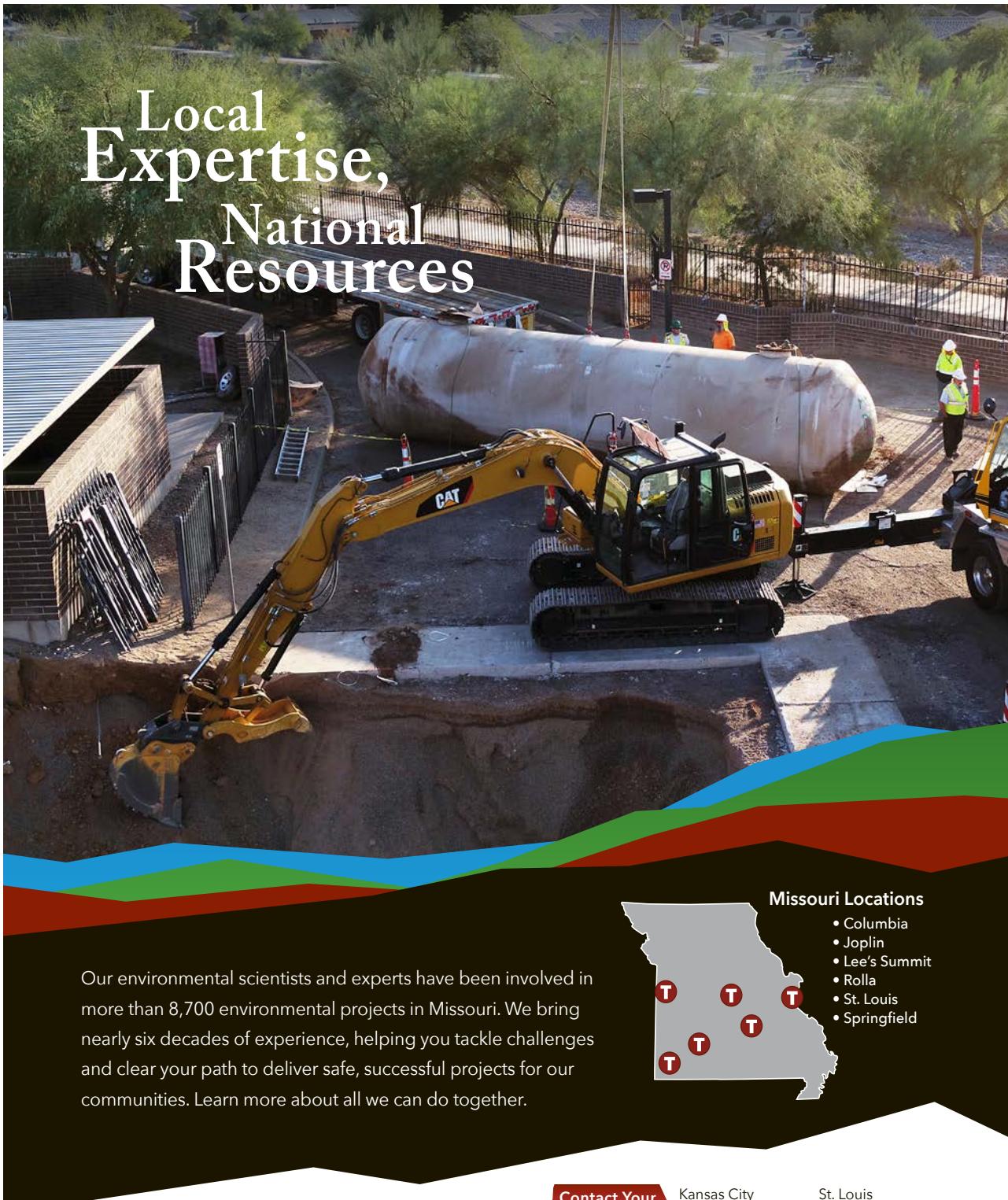
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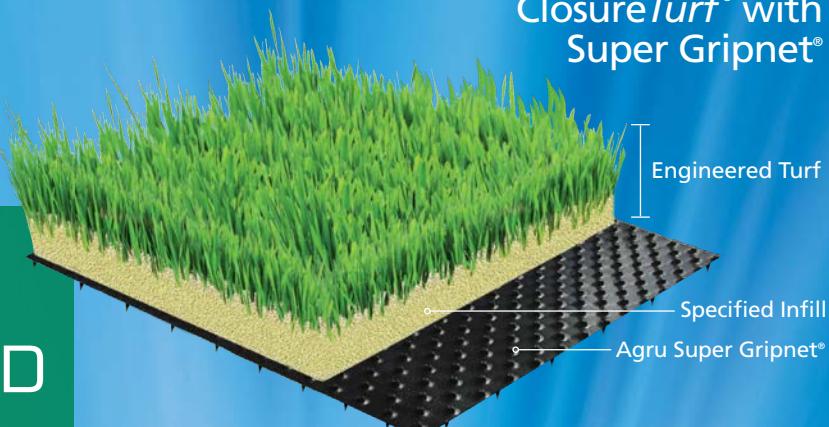
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Heritage Environmental Services 251 N. Old St. Louis Road Wood River IL 62095 (618) 578-4410	24 years	Reich Landfill Equipment 8714 Kinzie Joe Way Manhattan KS 66502 (480) 703-1250	4 years
Intertek - PSI 2828 S. 44h Street Kansas City KS 66106 (913) 310-1611	3 years	Republic Services 1701 N Missouri Hwy 291 Sugar Creek MO 64068 (816) 897-4515	12 years
Midwest Environmental Consultants 2009 E. McCarty Street, Suite 2 Jefferson City MO 65101 (573) 636-9454	17 years	RWI Enhanced Evaporation 2245 Colex Drive Grand Junction CO 81505 (970) 245-7104	1 year
MoDNR/Brownfields Voluntary Cleanup Program P.O. Box 176 Jefferson City MO 65102 (573) 522-8139	14 years	SCS Engineers 8575 W. 110th Street, Suite 100 Overland Park KS 66210 (913) 681-0030	31 years
MoDNR Tanks Section P.O. Box 176 Jefferson City MO 65102 (573) 526-0971	5 years	Solmax Geosynthetics 19103 Gundle Road Houston, TX 77073 (514) 235-7053	15 years
MoDNR Waste Management Program P.O. Box 176 Jefferson City MO 65102 (573) 526-3905	29 years	St. Louis County Public Health 6121 N. Hanley Berkeley MO 63134 (314) 615-8936	11 years
Missouri Dept. of Health & Senior Services 930 Wildwood Jefferson City MO 65109 (573) 253-9916	6 years	Teklab, Inc. 5445 Horseshoe Lake Road Collinsville IL 62234 (618) 344-1004	16 years

EXHIBITORS and SPONSORS

Terracon 15620 W. 113th Street Lenexa KS 66219 (913) 998-7476	24 years	Waste Connections 2305 Creve Coeur Mill Road Maryland Heights MO 63043 (314) 575-1302	12 years
Texas Molecular LP 2525 Independence Parkway South Deer Park TX 77536 (281) 930-2536	10 years	Weaver Consultants Group 6301 East Highway AB Columbia MO 65201 (888) 660-0346	13 years
Trinity Consultants 16252 Westwoods Business Park Drive Ellisville MO 63021 (636) 256-5642	13 years	WSP Golder 701 Emerson Road, Suite 250 Creve Coeur MO 63141 (636) 288-3338	2 years
United Rentals Fluid Solutions 2335 Kearbey Lane South Roxana IL 62087 (314) 347-8607	2 years		

SCHOLARSHIPS

The Missouri Waste Control Coalition (MWCC) provides scholarships each year to college students at select educational institutions. Currently, MWCC provides two \$1,000 scholarships through five schools in Missouri. They are:

Lincoln University
Missouri University of Science & Technology
University of Missouri - Columbia

Missouri State University
Southeastern Missouri University

In addition to the monetary award, the recipients are invited to the upcoming annual environmental conference at Margaritaville Lake Resort in July. MWCC provides them with a free registration and hotel room. The scholarships are administered by the educational institutions and must be made to students who meet the following criteria: A Missouri resident, student in good standing with the University, and a student majoring in environmental studies.

MWCC also awards free conference registrations and hotel rooms to two additional students from each educational institution. The recipients are also determined by the school.

MWCC is proud to have been providing scholarships to college students since 2009 as part of its mission to encourage environmental education.

Below are comments from students receiving cash and conference scholarships this year:

Kelton Back (MO S&T)

I am majoring in Environmental Engineering. For a career, I plan to be involved with natural resource management. I like doing practical work, where I can see the impact I am making on a community. Possible jobs to pursue include remediating contaminated soils and water sources, managing the health of national parks, or evaluating a construction project's impact on the local ecosystem and coming up with solutions to mitigate those impacts. Top employers I am looking at include the Missouri Department of Natural Resources and the EPA.

I have been a member of Missouri S&T's Engineers Without Borders program for two years. Our project is to install a pipeline system that connects a majority of houses in our team's community to the two nearby river sources. The pipeline also includes a slow-sand-filter, a sedimentation tank, and a Mariotte bottle chlorination system to treat the water and make it potable. We are also planning a maintenance trip for a previous project in the community in which the team installed a rainwater catchment system on the community's school.

Elli Castonguay (MU)

Elli Castonguay is a senior at Mizzou in the civil and environmental engineering program. Elli is involved in undergraduate research where she is a part of a team interested in learning about how streams are affected by historic mining in Missouri. Elli is also an engineering ambassador, a COE tutor, and served as the president for Mizzou club gymnastics for the 2022-23 season. This fall, Elli will hold the treasurer position for the Water and Environmental Technologists Club and will continue research at the University. In her future, Elli plans to pursue a masters degree and a career in environmental engineering, water resources, and/or remediation and restoration. Elli is very thankful to be a scholarship winner and have the opportunity to attend this conference!

Jovita Desha (MU)

I am studying Agricultural Sciences and my emphasis is Natural resources. I am deeply interested in the environment and in finding better ways to grow food with a minimum amount of damage to the world we all inhabit.

Anthony (Tony) Eberechukwu (MO S&T)

I am a master's student in the Environmental Engineering Department, Missouri S&T, with my thesis research on "Phytoremediation of 1,4-Dioxane". I am also working on analytical ways to quantify dioxane and some other contaminants in plant tissues. I am mostly interested in finding remediation strategies for different pollutants contaminating our environment. I hope to find like minds at the conference and share ideas. I am excited. Thank you for this great opportunity to be part of the MWCC conference this year.

SCHOLARSHIPS

Drake Johnston (MSU)

I would like to thank the Missouri Waste Control Coalition for your generosity and support. I feel very fortunate to have chosen as a recipient. I know that attending this MWWC conference will give me the opportunity to learn more. As for some information about myself, I am currently a Junior at Missouri State University, majoring in Civil Engineering. I am involved in several organizations including National Residence Hall Honorary and the American Society of Civil Engineers MSU Student Chapter. Currently I am serving as the ASCE Vice President. After graduating I plan to enter the Environmental Field. My desire to join the Environmental Field comes from my want to help society and the planet. I believe that having the opportunity to network and learn at the MWWC conference will have a positive impact on my future career and prospects.

Lucas Kuehnel (MU)

I am currently going into my senior year of studying chemical engineering at Mizzou. I chose chemical engineering because it has a wide array of applications across numerous industries, and it has remained interesting through my few years of college. After I graduate, I plan to pursue a PhD in nuclear engineering with an emphasis in researching materials for the next generation of nuclear reactors. I am not certain if I will continue researching or transition to industry after I finish schooling. Currently my research investigates nuclear fuel pellet compositions and more specifically spent nuclear fuel compositions. We look into how the fuel compositions will change throughout the life span of one fuel element and how it can be recycled to maintain the longevity and robustness of the world's supply of nuclear energy.

Donovan Moore (MU)

I am a rising senior enrolled in an accelerated BS/MS in Environmental Engineering. My plan is to get minors in Sustainability and German as well. For hobbies, I like to hike, play pickleball and soccer, and lose miserably at Rocket League. During this summer I am working for Weaver Consultants Group as a Landfill Quality Assurance Intern and I hope to continue my research into fluid mechanics when the Fall term begins. My plans for after graduation are fairly up in the air so I am very grateful for opportunities such as this conference to allow me to explore potential ways for me to find my place in the field.

Shubhankar Pradip Shinde (MO S&T)

I did my undergraduate studies in mechanical engineering, and as a grad student, am pursuing the field of environmental engineering. During an internship at the local municipal corporation of my city, which serves a population of 3 million, I learned more about laws, regulations, how the system works and was glad to see the progress and development in the field. I realized solid waste management wouldn't just help me apply engineering in developing systems, but also help me do something to save the environment and natural habitats. For me "Nothing such as waste exists. Everything is some sort of resource or energy for something. We just need to repurpose it." I now am a Graduate Research student working on anaerobic digestion under the guidance of Dr. Jianmin Wang at my department. Looking forward, I dream to setup my own industry in waste management back in India and make a technical, social and environmental impact with it.

Two additional recipients receive their scholarships:



Dwayne Harvey (MSU)



Lauren Johnson (MSU)

OUTSTANDING ACHIEVEMENT AWARDS

This year the Missouri Waste Control Coalition (MWCC) received numerous nominations for the OUTSTANDING ACHIEVEMENT AWARDS. After a thorough review of the nominations, the following awards are being presented:

ENVIRONMENTAL EXCELLENCE

This award recognizes projects or organizations which have achieved environmental excellence through innovative technology and methodologies or significant community stewardship. Applications should include specific information on individuals/organizations involved and impact of work performed. Organizations or projects should enhance performance both environmentally and economically, be sustainable and show documented results both before and after implementation.

Interstate Technology & Regulatory Council (ITRC)

The Interstate Technology and Regulatory Council (ITRC) is dedicated to delivering tools and resources to the environmental sector and public that broaden and deepen technical knowledge and expedite quality regulatory decision-making while protecting human health and the environment. ITRC is deeply committed to serving the public and environmental sector so that innovative, sustainable, and achievable solutions can be implemented to protect the environment and human health.

*Address: 1250 H Street NW, Suite 850
Washington, DC 20005
703.362.2038, preyes@ecos.org*

OUTSTANDING ACHIEVEMENT AWARDS

JAN DILLOW COALITION CONTRIBUTION

This special award recognizes an individual whose efforts have contributed significantly to the development and growth of the Missouri Waste Control Coalition. The award honors former president, Jan Dillow, one of the founders and key leader in the development and success of the Coalition.

Anastasia Welch



Anastasia served as President in 2017-2018 and was the Conference Chair in 2017. She stays involved by serving on the Coalition's Advisory Board and has been instrumental over the years in guiding the Coalition towards new ideas and concepts. She has long been involved in environmental activities and shares her expertise with not only the Coalition but other environmental associations as well. Anastasia is passionate about landfills and the waste systems that serve our communities. She is currently a Solid Waste Services Practice Area Leader with SCS Engineers.

*Address: 8575 W. 110th Street, Suite 100, Overland Park, KS 66210
913.681.0030, awelch@scsengineers.com*

In Memory of Jan Dillow

It is my sincere privilege to reflect on memories of our dear friend and coalition partner, Jan Dillow. My first encounter with Jan happened while in my “formative” early years with Missouri DNR, at the beginning of the Coalition coming together as an organization and hosting the annual Waste Management Conference. As I recall, I had been nominated for award in my DNR capacity for involvement in the dioxin episode. This attractive, personable, dedicated and energetic lady named Jan congratulated me. She encouraged my further involvement in this newly emerging group. I remember being intrigued and flattered by this episode and became involved with MWCC ever since.

As I soon discovered, Jan was a cornerstone of the organization and a central part of the fabric of MWCC. She embodied an enthusiastic and wholehearted interest in the business of progressive waste management. She also had a commitment to engaging constructive dialogue with all interests, which was the core and essence of the Coalition. I was also privileged to work for a period in the same corporation with Jan in the early days of the Heritage organization. I found Jan to be the same dedicated professional as the company, the industry and the cause of progressive environmental movement was at large.

Jan was an integral fixture at all the conferences until her illness took her from us. My memories include her actual delivery of the Kansas City strip steaks procured and hauled to the legendary picnic events. She even attended to those of us ‘pit slaves’ in the early years of hand grilling by cooling us down with wet towels. That was Jan—involved with all aspects from big picture to the details—and always putting people first.

It is with sincere fondness and respect that I am proud to call Jan now what I proclaimed her then, the “Godmother” of the MWCC. I believe she is smiling now on us as she did then upon hearing this term of endearment. Thank you again, Jan for everything.

Your friends at the Missouri Waste Control Coalition
Submitted by Mike Duvall - June 20, 2001

NOTES

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