

CEPDS 2020 PROGRAM

Version 1.2

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KEYNOTE DESCRIPTION

Building the Brooklyn Bridge **Paul Giroux**

Throughout history advancements in structural design and material science have allowed civil engineers to continually innovate and improve the performance of bridges. Yet, there are many lessons to be learned from past generations of designers and builders that are still relevant today.

May 24th, 2008 marked the 125th anniversary of the opening of the Brooklyn Bridge. Giroux's in-depth research and perspective as a modern builder are woven together in his presentation, "Building the Brooklyn Bridge" which bring the challenges of the bridge's construction to life.

Giroux also highlights many of the lessons of the master builders, John, Washington, and Emily Roebling and the relevance of these lessons in modern bridge design and construction.

In 1958 at the 75th Anniversary of the Brooklyn Bridge, prominent bridge designer David Steinman said, "Today there are bigger bridges - but they never could have been built had not Brooklyn Bridge shown the way. And its story is still the greatest bridge-building story of all." Come and you will learn why this is still true.

The Brooklyn Historical Society called the presentation, "absolutely magnificent".

About the Speaker

Raymond "Paul" Giroux received his BS in Construction Engineering from Iowa State University in 1979. For the past four decades, he has been with Kiewit Corporation, working on a wide variety of heavy civil engineering mega projects throughout the United States. Paul played a key role in notable projects such as the Fort McHenry Tunnel in Baltimore, several projects on the Big Dig in Boston including the new Zakim/Bunker Hill Bridge, the new San Francisco Oakland Bay Bridge East Span, and many other projects.

Paul serves on the Iowa State University Civil Engineering Advisory Board, the Transportation Research Board, and several American Society of Civil Engineering (ASCE) committees.

In 2008, he was the ASCE Chairman and featured speaker for Brooklyn Bridge 125th Celebration in New York and, in 2010, he presented the closing speech at the ASCE Hoover Dam 75th Anniversary Symposium in Las Vegas. In 2012, Paul served as the ASCE Chairman and principal lecturer for the Golden Gate Bridge 75th Anniversary. In 2014, Paul was a featured speaker at Global Engineering Conference to commemorate the 100th anniversary of the opening of the Panama Canal. In 2019, Paul was a featured speaker at the Transcontinental Railroad 150th Symposium.

Paul is the author of several bridge design and civil engineering history papers. He is also an active public speaker having presented over 250 lectures and seminars at over 65 engineering schools throughout the United States and other international venues. Paul was the recipient of the American Society of Civil Engineers' Civil Engineering History and Heritage Award for 2013, the G. Brooks Earnest Award in 2015, was elected a Distinguished Member of ASCE in 2016, received the ASCE Roebling Award for Construction Engineering in 2017, and was inducted into the Iowa State University Construction Engineering Hall of Fame in 2018.

MANAGEMENT TRACK DESCRIPTION

Management Track (Additional Conference Charge)

Chris McIntyre

9 to 12 p.m. each day

Day 1: Roadmap to Freedom: Inspiring a Culture of Accountability [Live-Virtual Interaction]

[LINK for more information: Roadmap to Freedom](#)

Accountability isn't something that can be demanded. True accountability must be inspired. Unfortunately, most small business owners and senior leaders are usually far less equipped to effectively lead, let alone develop their team. Often they struggle to align people with their brand, handle performance management issues, and effectively manage the boss / buddy relationships required in such a tight environment. They can never find the time to create effective people systems let alone make sense of the abyss of ever-changing roles and responsibilities.

In these action packed sessions, you will learn how to inspire fierce but aligned team buy-in, develop a team of superstars and master the 30, 60, 90-day accountability conversation.

The result will be a smooth transition from chief doer and knowledge holder to chief executive overseer of an empowered culture of team accountability.

Key Learning Objectives

- Align organizational goals and objectives with your most valuable assets

- Define and actually live your values
- How to inspire team members to think like genuine owners
- Master a 90-Day conversation system

Day 2: Becoming a Peak Productivity Ninja: Minimizing Digital Overwhelm [Live-Virtual Interaction]

[LINK for more information: Becoming a Peak Productivity Ninja](#)

Does your email inbox overwhelm you? Have you ever woken up in a panic, in the middle of the night, because another really important issue completely slipped your mind? If so, you're not alone! Most highly productive people ignore the overwhelming cost they've been paying for their productivity. This dynamic session will give you a turn-by-turn roadmap for minimizing your digital overwhelm by 10-25% or more.

Key 1: Tame the Email Monster! Your Roadmap for getting and keeping your inbox at zero (and yes, it is possible!). Find emails instantly with a simple yet flexible filing structure. Decrease email addiction and increase accountability. Spend less time trapped behind email to get the "real work" done. Discover the true cost of "flagging and marking as unread".

Key 2: Keep "All" of your Agreements! Keep a "real" to-do list that motivates (versus overwhelms) you. Keep strategy in mind even as you do the tactical work. Prioritize competing demands in a dynamic workplace. Know what to say "NO" to and how to feel good about it.

Key 3: Get Crazy-Fast Digitally. Find anything on your computer faster than you can finish typing it. Set up critical pre-made quick searches and favorite folders. Tailor your own project structure so stuff stays where it should. Create templates for recurring emails and consistent deliverables. Keep 100% of your commitments at your fingertips.

By elevating your personal efficiency, boosting team productivity, and inspiring organizational accountability you can achieve peak performance. Are you ready to take your organization to the next level? Let's do this!!

Key Learning Objectives:

- How to become a virtual meeting master
- Master Ninja routines for daily, weekly, monthly & quarterly success in a COVID-19 world
- Latest productivity technology, apps, and gadgets

About the Speaker

Chris McIntyre is known internationally as a peak-performance expert. He graduated from Penn State with a BA in Business and also holds dual MA's in HR Management and Development. As a Captain, he led strategic planning efforts for the Air Force's busiest F-16 Fighter Wing during 9/11. He started his San Diego based speaking business in 2005.

He's worked with the best leaders globally from Fortune 100 organizations on Wall Street to the United Nations, and from the NCAA and Lucas Films, to top CEO groups like Young President's (YPO) and Entrepreneur's Organization (EO).

He founded a Leadership Development Academy specifically for the business owner and non-profit executive community. He has addressed more than 200,000 people in 48-different states, and internationally in India, Saudi Arabia, Dubai, and the throughout the UK.

Chris's business journey has been profiled in the Complete Idiot's Guide to Success as a Professional Speaker, Fox & MSNBC News, and Entrepreneur Magazine. He's earned the National Speaker's Association's Certified Speaking Professional (CSP) credential – a designation held by less than 10% of speakers globally.

McIntyre's annual coaching, webinar, and keynote programs, focus on helping senior and executive leadership to install peak-performance team accountability systems.

He is the author of The Roadmap to Freedom: A Small-Business Owner's Guide to Connecting People to a Core Message. The Roadmap gives the business owner community access to the thinking, tools, and systems their corporate CEO counterparts enjoy regularly!

Click on the following links to see what others are saying about Chris:

- <http://www.christophermcintyre.com/testimonials/>
- https://www.youtube.com/watch?time_continue=3&v=NNvRK0Vs0dg

WEDNESDAY (11/18) – DAY 1

Environmental Track

Moderator: Daniel Miller (Parsons)

9:00 – 9:15 a.m.	CEPDS 35 Welcome Remarks and Instruction
9:15 – 10:05 a.m.	<p>Pandemic Public Involvement: Not Your Typical Approach (Best Practices and Lessons Learned) <i>Mallory Duncan (INDOT), Alex Lee (Parsons) and Erin Pipkin (Compass Outreach Solutions)</i></p> <p>With the increasing use/dependence of social media and while dealing with the current pandemic, utilizing virtual public involvement tools can be critical to keeping the public informed and keeping your project on track. This presentation will discuss virtual public involvement options and lessons learned.</p>
10:05 - 10:55 a.m.	<p>Virtual Public Involvement in Underserved and Environmental Justice (EJ) Communities <i>Carolyn Nelson (FHWA)</i></p> <p>While utilizing virtual public involvement, ensuring that underserved and Environmental Justice (EJ) communities are appropriately reached and included is critical to ensuring disproportionate impacts do not occur. This presentation will focus on virtual public involvement options that can better meet the needs of these communities.</p>
10:55 – 11:10 a.m.	Break
11:10 – 12:30 p.m.	<p>KEYNOTE: Building the Brooklyn Bridge <i>Paul Giroux, Kiewit Corporation</i></p> <p><i>See Above for 'Keynote Description' for more information</i></p>

Water Resources Track

Moderator: Ted Blahnik

9:00 – 9:15 a.m.	CEPDS 35 Welcome Remarks and Instruction
9:15 – 10:05 a.m.	<p>Reconnecting Rivers: Strategies and Case Examples in Dam Modification and Removal <i>Luther Aadlund (Minnesota DNR)</i></p> <p>Over 90,000 dams have been built across the United States. Many of these dams have exceeded their design life and are deteriorating. Dam failures have become increasingly common and can cause loss of life and major damages to infrastructure and downstream river channels. Hydraulic undertows below low-head dams cause numerous drowning deaths. Reservoirs filled with sediment</p>

	<p>while downstream reaches are prone to incision and erosion creating additional issues. Dams also have profound impacts on river ecosystems by blocking fish migrations, inundating critical habitats, interrupting sediment and nutrient regimes, and can cause the extirpation or extinction of native fish and mussel species. Several strategies have been applied in Minnesota and elsewhere to remediate some or all of these problems. Where existing functions prevent removal, nature-like fish passage can address some of these problems. By-pass nature-like fishways can provide fish passage along with creating some instream habitat. The rock arch rapids concept is a specific type of nature-like, rock ramp fishway that can eliminate the hydraulic undertows, reduce tailwater erosion, can provide whitewater kayaking opportunities, and create spawning habitat for rheophilic species. Dam removal is the most comprehensive restoration strategy but accumulated sediment can present design challenges to avoid downstream impacts. Incorporation of river restoration techniques including rock arch rapids, can stabilize these sediments and reconnect floodplains in the former reservoir. Case examples of these strategies will be provided and discussed as well as important design considerations, ecological and geomorphic responses along with community perceptions.</p>
10:05 - 10:55 a.m.	<p>New General Permit Rules for Construction <i>Randy Braun (IDEM)</i></p> <p>This presentation will go over the recent changes to the General Permit Rules for Construction permit.</p>
10:55 – 11:10 a.m.	Break
11:10 – 12:30 p.m.	<p>KEYNOTE: Building the Brooklyn Bridge <i>Paul Giroux, Kiewit Corporation</i></p> <p><i>See Above for 'Keynote Description' for more information</i></p>

Transportation Track

Moderator: Elizabeth Phillips (INDOT)

9:00 – 9:15 a.m.	CEPDS 35 Welcome Remarks and Instruction
9:15 – 10:05 a.m.	<p>Research at NCAT: Micro surfacing and Cape Seals <i>Adriana Vargas-Nordbeck, (Auburn University-NCAT)</i></p> <p>Construction and performance update on micro surfacing and cape seal test sections constructed as part of the NCAT-MnROAD Pavement Preservation Group Study.</p>
10:05 - 10:55 a.m.	<p>Significant Work Zone Impact Determination and Traffic Management Planning <i>Dave Boruff (INDOT), Phil Kuntz (HNTB)</i></p> <p>This session will provide information on the rules and criteria that are used in determining whether a project is classified as having “Significant Work Zone</p>

	Impacts”, describe what’s involved in Traffic Management Planning, and compare and contrast several TMPs implemented in actual projects.
10:55 – 11:10 a.m.	Break
11:10 – 12:30 p.m.	KEYNOTE: Building the Brooklyn Bridge <i>Paul Giroux, Kiewit Corporation</i> <i>See Above for ‘Keynote Description’ for more information</i>

Structures Track

Moderator: Mike Kelly (CE Solutions)

9:00 – 9:15 a.m.	CEPDS 35 Welcome Remarks and Instruction
9:15 – 10:05 a.m.	Breaking Convention with Timber Offices <i>Anthony Harvey (Regional Director at Woodworks)</i> Great solutions often lie beyond convention. Consider that most offices in the U.S. could be built with a wood structure yet this option goes largely unexplored. Many designers assume they’re limited to concrete and steel for workplace environments—because that’s the common default—but, in fact, wood construction can accommodate the space and performance needs of office occupancies, while providing advantages such as speed, cost savings, and reduced environmental impact. Focusing on common design considerations (e.g., layout flexibility, land use constraints, and market classification) this presentation will examine the potential for light-frame and heavy timber structural solutions. Topics will include building code opportunities related to fire and life safety, structural design and layout, and cost.
10:05 - 10:55 a.m.	Integrating Steel and Concrete Anchorage Design <i>Bradley Smith, Field Engineer (Hilti)</i> Review the basics of base plate design and learn base plate design methods of distributing forces through base plates to concrete anchors. Identify the main considerations for anchoring to concrete design and view a demonstration of integrated workflow of anchor design using software.
10:55 – 11:10 a.m.	Break
11:10 – 12:30 p.m.	KEYNOTE: Building the Brooklyn Bridge <i>Paul Giroux, Kiewit Corporation</i> <i>See Above for ‘Keynote Description’ for more information</i>

Management Track

Moderator: Steve Osborn (CE Solutions)

9:00 – 9:15 a.m.	CEPDS 35 Welcome Remarks and Instruction
9:15 – 12:15 p.m.	<p>Road Map to Success: Inspiring a Culture of Accountability <i>Chris McIntyre, Leadership Development Academy</i></p> <p><i>See Above for ' Management Track Description' for more information</i></p>

THURSDAY (11/19) – DAY 2

Environmental Track

Moderator: Daniel Miller (Parsons)

9:00 – 9:50 a.m.	<p>Navigable Waters Protection Rule Overview <i>Sarah Keller (USACE)</i></p> <p>On April 21, 2020, USEPA and the Department of the Army published the Navigable Waters Protection Rule to define “waters of the United States” (WOTUS) in the Federal Register (https://www.epa.gov/nwpr/final-rule-navigable-waters-protection-rule). This presentation will discuss the revised Rule and focus on how the Section 404 jurisdictional authority has changed as a result. An overview of regulated and excluded waters will be provided. Additionally, any other regulatory updates/changes affecting Section 404 will be provided.</p>
9:50 - 10:40 a.m.	<p>Navigating Section 4(f) through the NEPA Process <i>Karstin Carmany-George (FHWA), Ron Bales (INDOT), and Patrick Carpenter, (INDOT)</i></p> <p>Have you ever been progressing right along with your NEPA documentation for a transportation project only to have a Section 4(f) ‘monkey wrench’ thrown into the process? In this session the Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT) will explain what Section 4f resources are and what is required when such a resource is within your project area. The presentation will explore the use of Section 4(f) programmatic evaluations, 4(f) exceptions, temporary occupancy, least overall harm, and discuss ‘net benefit’ as well as INDOT’s recent memorandum of understanding for de minimis 4(f) impacts on historic properties listed on or eligible for listing on the National Register of Historic Places and include several case studies involving various Section 4(f) properties.</p>
10:40 – 10:55 a.m.	Break
10:55 – 11:45 a.m.	<p>COVID-19: Critical Infrastructure Response Planning <i>Eric Jagger (Parsons)</i></p>

	<p>The uncertainties of the COVID-19 pandemic and its effects have presented several challenges to the engineering and construction industry. To ensure the continuity of operations of critical functions, many have adapted to working from home, telecommunications, and new office and field safety guidelines. This presentation will focus on the short-term stress and potential long-term impacts of the pandemic on the industry, guidance on maintaining healthy business operations, and practical next steps in ensuring employee and public safety.</p>
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Geotechnical Track

Moderator: Mike Wigger (Earth Exploration)

<p>9:00 – 9:50 a.m.</p>	<p>Levee Seepage Evaluation for FEMA Flood Map Certification <i>Karan Doshi (Earth Exploration)</i></p> <p>The City of Vincennes owns and operates Brevoort/Vincennes Levee System which consists of nearly 40 miles of earthen embankment, flood walls, and various flood protection structures. As part of the FEMA’s accreditation for flood maps, Vincennes Water Utilities (VWU) initiated a seepage evaluation and improvements plan of a mile-long section of the levee where seepage was controlled by 30 pressure relief wells. Implementation of various seepage control measures, including new pressure relief wells, sheet pile cutoff walls, and C/B walls, were considered. This presentation discuss the accreditation requirements by FEMA and USACE, subsurface exploration program, seepage modeling and evaluation, and the seepage control measure that was selected for implementation.</p>
<p>9:50 - 10:40 a.m.</p>	<p>GAM- INDOT’s Geotechnical Asset Management Initiative <i>Aamir Turk (INDOT) and Victoria Leffel (INDOT)</i></p> <p>Risk- and performance-based transportation asset management plans (TAMPs) for the National Highway (NH) System for roads and bridges have been in practice for many years. In the case of geotechnical assets, such plans have been nonexistent or are very rare. However, recently we have seen much interest in Geotechnical Asset Management (GAM) by many states. GAM has also been strongly encouraged by FHWA, and INDOT has been recognized as one the states by FHWA which has made good progress in this respect. Retaining walls and landslides are the two main geotechnical areas where INDOT has developed inventories and are utilizing the collected information for various purposes such as design and maintenance. In this presentation we will highlight INDOT’s efforts towards GAM. We will present the need for GAM, how it was developed for Indiana retaining walls and landslides along with its current use and its potential for the future.</p>
<p>10:40 – 10:55 a.m.</p>	<p>Break</p>
<p>10:55 – 11:45 a.m.</p>	<p>Historic Bridges in Indiana: Program Update and Tips for Navigating Projects <i>Mary Kennedy (INDOT)</i></p>

	This session will provide updates on the Historic Bridges in Indiana and discuss tips and lessons learned for how to navigate the Historic Bridge Process.
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Transportation Track

Moderator: Jeromy Richardson (United Consulting)

9:00 – 9:50 a.m.	<p>Mid-Michigan Flooding and VPI <i>Kimberly Zimmer (Michigan DOT)</i></p> <p>Discussion on MDOT’s Virtual Public Involvement Initiatives and MDOT Bay Region’s Emergency Response to the Mid-Michigan Flooding and Dam Breaches.</p>
9:50 - 10:40 a.m.	<p>INDOT Work Zone Safety Updates <i>Lisa Casler (RQAW), Phil Kuntz (HNTB), Jeremy Hunter (INDOT)</i></p> <p>Updates to INDOT Maintenance of Traffic Design Policies and Practices.</p>
10:40 – 10:55 a.m.	Break
10:55 – 11:45 a.m.	<p>Detention Do's and Don'ts <i>Jim Emerick (INDOT) and Eric Harned (United Consulting)</i></p> <p>With detention becoming such an important part of INDOT and LPA projects, this presentation will give consultants and reviewers an opportunity to get on the same page. This session will focus on some tips and tricks to use during the design and reporting process, common errors and mistakes noticed by reviewers, and presenting what INDOT wants to see as the end product.</p>

Structures Track

Moderator: Mike Kelly (CE Solutions)

9:00 – 9:50 a.m.	<p>Changes to ACI 318-19 and the CRSI 318 Design Guide <i>David Fanella (CRSI)</i></p> <p>Discussion on the changes made to ACI 318-19 from the previous edition of the code. An overview of the CRSI design guide to ACI 318 will also be presented..</p>
9:50 - 10:40 a.m.	<p>Use of Gr80 and Gr100 Rebar in ACI318-19 / New Trends in High-Strength Reinforcing Bars <i>David Fanella (CRSI)</i></p> <p>Recent advances, including substantial new research, have enabled reinforcing steels of higher strengths to be a viable option in a variety of applications in reinforced concrete structures. This session will present information related to the use of Grade 80 and Grade 100 steel reinforcement in the 2019 edition of ACI 318 Building Code Requirements for Structural Concrete. Numerous revisions have been made in ACI 318-19 to incorporate the use of high-strength reinforcement, and this webinar will cover new and updated requirements for the following:</p>

	<ul style="list-style-type: none"> • Types of nonprestressed reinforcing bars • Development and splice lengths • Structural members, including two-way slabs, beams, columns, walls, diaphragms, and foundations • Limits on concrete compressive strength • Strength reduction factors <p>Benefits related to the use of Grade 80 and Grade 100 reinforcing bars are also included.</p>
10:40 – 10:55 a.m.	Break
10:55 – 11:45 a.m.	<p>Mechanical Splicing of Rebar <i>Zach Sayre (Dayton Superior)</i></p> <p>Discussion on the advantages and applications of mechanical splicing of reinforcing bars and end anchorages. Overview of presentation:</p> <ul style="list-style-type: none"> • Advantages of Mechanical Splicing • Testing Methods • Applications • Resources <p>Considerations related to the use of Grade 80 and Grade 100 reinforcing bars are also included.</p>

Management Track

Moderator: Steve Osborn (CE Solutions)

9:00 – 12:00 p.m.	<p>Becoming a Peak Productivity Ninja: Minimizing Digital Overwhelm <i>Chris McIntyre, Leadership Development Academy</i></p> <p><i>See Above for 'Management Track Description' for more information</i></p>
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SPEAKER BIOS

Luther Aadland has worked as a river scientist for the Minnesota Department of Natural Resources for the past 33 years. Luther has a B.A. in biology (ecology) from Concordia College Moorhead in 1979, a M.S. in zoology (Fisheries) from North Dakota State University in 1982 and a Ph.D. in Biology (Stream Ecology, and Fisheries) from the University of North Dakota in 1987. His research topics include the microhabitat requirements of fish and invertebrates, fragmentation effects on biodiversity, invasive species ecology, applied fluvial geomorphology, and river restoration design. Of particular interest has been the reconnection and restoration of critical habitat for sturgeon and other imperiled species. He has designed or assisted in the design of numerous river restoration, dam removal, and nature-like fish passage projects on river systems across Minnesota and the United States that have resulted in the return of previously extirpated fish and mussel species as well as flood damage reduction, improved safety, stability, and recreational benefits.

Ron Bales is the Environmental Policy Manager within the Indiana Department of Transportation, Environmental Services Division. He has experience working on transportation-related projects and managing environmental policy for INDOT. Ron has over 15 years' experience, including National Environmental Policy Act documentation, environmental research and analysis, traffic noise modeling, and other environmental disciplines.

Ron received his Bachelor of Science degree in Natural Resources Environmental Science from Purdue University.

Kari Carmany-George is an Environmental and Planning Specialist with the Federal Highway Administration, Indiana Division. She is responsible for providing technical assistance for NEPA compliance and for reviewing and approving CE4 level and Environmental Assessment NEPA documents. Kari started with FHWA in January 2020 after working as an Environmental Section Manager for INDOT, Greenfield District since 2015. After earning a B.A. in history and a M.A. in anthropology from Ball State University, Kari started her career in the private sector completing Section 106 and NEPA documentation, archaeological surveys, and Phase I environmental site assessments for wireless communication tower and transportation projects. Kari went on to work for the Indiana Army National Guard as the first Cultural Resource Manager / Environmental Compliance Manager. She also worked for a private consultant completing NEPA and cultural resource management related projects for various DOD, NPS, and US Forest Service entities.

Patrick Carpenter received a B.A. in History from Northern Kentucky University and a M.A. in Folk Studies from Western Kentucky University. Mr. Carpenter has worked in the Cultural Resources Office at the Indiana Department Transportation (INDOT) since 2006. He is currently the Section 106 Specialist for INDOT. Before coming to INDOT, Mr. Carpenter worked at the Delaware Department of Transportation (DelDOT) for six-years in their Section 106 compliance program.

Mallory Duncan. The world of Communications is changing, and Mallory Duncan is right in the middle of it. She has been the Communications Director at the Indiana Department of Transportation for two years.

While at the State, she's worked on many major projects including I-69 and the North Split. She also started the State's Digital Message Board campaign. Mallory has experience in front of the camera and behind it. She started her career in News as a Producer in Indianapolis.

Whether in news or outside of it, she's in the people business and loves telling their stories. At INDOT, she works to tell the public what's going on behind the scenes and is passionate about using all types of social media to inform and educate the public and show them that transportation can be pretty cool.

Jim Emerick graduated from the University of Pittsburgh with a bachelor's and master's degree in Civil Engineering with a concentration in Hydrology and Water Resources. Jim has worked for the past 17 years in both private and public sector in site development and road projects involving various types of detention design. Jim is currently employed with INDOT.

Eric Harned is a Design Engineer in the Roadway group at United Consulting. His experiences include a variety of roadway design projects with the focus being on storm sewer and detention design. Eric graduated from Rose-Hulman in 2016 with a bachelor's degree in Civil Engineering.

Eric Jagger is an Associate Environmental Planner who works at Parsons Corporation, focusing on transportation related projects. He is responsible for coordinating with regulatory agencies to manage compliance with NEPA and all federal, state, and local environmental regulations. He also assists with public involvement, environmental investigations, as well as permitting responsibilities. Eric is currently the 2020 Safety Team Lead for the Indianapolis office. He received his degree from Manchester University in Environmental Policy and Political Science. He lives in Indianapolis with his partner and two dogs.

Karan Doshi is a Staff Engineer at Earth Exploration, A Terracon Company and his work is primarily focused on Geotechnical projects ranging from bridge foundations (shallow and deep), retaining walls, slide corrections, roadway subgrade considerations, and dam/levee safety considerations. Karan completed his Bachelors in Civil Engineering from Mumbai, India (2015) and Masters in Civil Engineering with focus on Geotechnical Engineering from Purdue University, Indiana (2017). Karan joined Earth Ex. as an intern while he was at Purdue and has enjoyed great projects and working with great people over the last 4 years. Karan recently took the PE exam. Karan loves to travel and enjoys playing racquetball and guitar in his spare time.

Alexander Lee is a senior environmental planner with experience working on transportation-related projects and providing environmental management oversight and analysis. Alex has over 20 years' experience includes communications program management, public involvement, community relations, and environmental studies, National Environmental Policy Act documentation and environmental studies, environmental research and analysis, comprehensive planning, and urban design.

Alex received his degree in Urban Studies and Planning from the University of Maryland. He is a member of the American Planning Association and a Certified Planner. He lives in Zionsville, IN with his wife and three teenage boys.

Victoria Leffel is an Engineering Geologist with INDOT. Victoria is responsible for the state-wide geologic hazard management program, including landslides, karst sinkholes, and mine subsidence. Victoria has over 5 years of experience, including geologic assessments, asset management, and environmental documentation such as National Environmental Policy Act documentation and stormwater quality control

plans. Victoria received a BS in Geology & Geophysics and an MPH in Environmental Public Health from Purdue University.

Erin Pipkin. After 20 years in the industry, public outreach is owner/principal Erin Pipkin's passion. Whether it's a sewer project, new interstate or trail, her public involvement campaigns support projects from studies and planning through design and construction.

Erin has led multi-million-dollar public involvement campaigns for more than a dozen agencies and municipalities. An accredited member of the Public Relations Society of America, she draws upon experience serving a variety of industries to develop campaigns that go beyond standard meetings in school cafeterias to reach residents and business owners where they are.

Aamir Turk. Licensed Professional Engineer with 26 years of Civil Engineering experience. Completed Master of Science degree in Civil Engineering from University of Illinois at Urbana-Champaign. Currently working as an engineering supervisor in INDOT geotechnical services, overseeing in-house geotechnical design and asset management section. Chairs INDOT Retaining Wall Committee.