

Jimmerson Lake Dam in Steuben County, Indiana. He is experienced in stream restoration, 1D/2D/3D hydraulic modeling, including sediment/solute transport, hydrologic and environmental analyses, and the design of structural BMPs. At The Pennsylvania State University, his master's research focused on groundwater-surface water hydraulics, exploring both nutrient uptake stoichiometry and the differentiation of hyporheic and surface transient storage.

Greg Kicinski PE, BSCE University of Evansville 1988. Greg has been with INDOT for over twenty years. Ten of those years were spent in construction. After managing the INDOT Design/Build Program, he currently Manages the Office of Project Management which is responsible for the delivery of all added capacity projects.

David Knipe, PE, CFM, has been with the Division of Water, Indiana Department of Natural Resources, since 1992, and is currently the section manager of the Central Basin Team in the Engineering Services Center. He is responsible for the development and review of hydrologic and hydraulic modeling for various floodplain management and dam safety applications, and has been very active in the Division's program to modernize and update FEMA floodplain mapping for the state. Mr. Knipe currently serves as co-chair of the Mapping and Engineering Standards Committee for the Association of State Flood Plain Managers. He received a BS degree in civil engineering from Pennsylvania State University and an MS in civil engineering from Purdue University. He is a registered professional engineer in the state of Indiana and an ASFPM Certified Floodplain Manager.

Scott Ludlow, PhD, PE, is a principal engineer with Earth Exploration, Inc., in Indianapolis, and has 25 years of consulting experience in geotechnical engineering. During his career, Mr. Ludlow has been involved in projects throughout the United States, ranging from small-scale site investigations to complex studies and designs involving special considerations for excavation support and earth retention systems, dams and embankments, seismic stability and deformations, machine vibrations, soil nailing and earth reinforcement, in-situ testing, and deep foundations. He is a member of ASCE's Earth Retaining Structures committee and INDOT's Retaining Wall Committee, and is a professional engineer in several states.

CJ McClanahan is the founder and president of **reachmore**, a leadership training and consulting firm. He writes a column on leadership for the *Indianapolis Business Journal* and hosts central Indiana's premiere radio program for entrepreneurs, LetsTalk Business, (heard Sundays at noon on 1430 AM, WXNT). Over the past five years, he has spoken to thousands of professionals throughout central Indiana and has helped more than 150 business owners and corporate management teams achieve record sales and profits. After beginning his career with Arthur Andersen, where he helped organizations use technology to improve their business processes, Mr. McClanahan shifted his focus toward the small business. He served as the director of finance and operations for a mid-sized manufacturing organization and as a director of sales and business development for a software company with global sales of more than \$20 million. He began his consulting career as a licensed business coach with Action Coach and was soon recognized as one of the top coaches in the United States. Mr. McClanahan was named to the 2006 class of the *Indianapolis Business Journal* "40 under Forty" list.

Bob McCullough, PhD, PE, worked for nine years as a consultant and contractor with a department of transportation before coming to Purdue, where he has 21 years of academic experience. He has taught undergraduate and graduate classes on a wide range of topics, published in technical journals, made presentations at national conferences, and performed over four million dollars' worth of research for the transportation and construction industries. In the spring 2004 semester, he taught CE 526—Design of Temporary Structures, as the first-all digital, paperless class at Purdue University. His research work has produced computer tools and methodologies that have affected the way these organizations do business. Mr. McCullough has developed online short courses for vertical forming systems and design basics of welded wire reinforcement offered through Purdue University. He has served on various technical committees, including the ASCE Design Loads on Construction Committee—Construction Division, 1989-present, which produced the ASCE Standard 37-02, Design Loads on Structures during Construction.

Gary Mroczka has been the production management division director for INDOT for the past three years. He oversees a division of almost 300 employees, comprised of eight offices responsible for the various components of project development. Mr. Mroczka was born and raised in Michigan, and graduated from the University of Michigan with a BSCE degree in 1989. He has 18 years of transportation and management experience and received his PE. license in Indiana in 1994.

Registration Form

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Twenty-Fourth Annual Civil Engineering Professional Development Seminar

Please enroll the following person in CEPDS 24, to be held at Purdue University on November 5, 2009. Early registrations must be received by October 23, 2009 to receive a discount. Full refunds will be given until October 30, 2009. Purdue University is not responsible for costs due to cancellations.

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- Hydraulics
- Geotechnical
- Management

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Each attendee will receive a certificate of completion showing 0.6 CEUs during the conference. If you need a cumulative record of all CEU activity, please contact CEC Business Services and pay the \$6 transcript fee.

Bob Newport is a Stormwater Specialist with the Region 5 (Chicago) office of the U.S. Environmental Protection Agency. He works with States, regional agencies, and local units of government on issues related to land use, development practices, and stormwater management. He leads and participates in activities in the Region related to Low Impact Development and Green Infrastructure. In addition to his over 18 years with the U.S. Environmental Protection Agency, he has more than eight years of experience working in the private sector. Bob has a Bachelor's degree from Roosevelt University in Public Administration, a Bachelor's degree from Northwestern University in Economics, and a Master's degree from the University of Illinois at Chicago in Urban Planning and Policy.

Gary L. Pence PE, BSCE, graduated from Purdue University in 1983. His professional career started with the Indiana Department of Natural Resources, where he worked from 1984 to 1991 as a design engineer. He then transferred to the Indiana State Emergency Management Agency, where he was a survival crisis management engineer from 1991 to 1998. Mr. Pence was with the Design Channelization section of INDOT from 1998 until 2006, when he transferred into the Project Management section.

Thomas J. Rowe has over 23 years of experience with Wiss, Janney, Elstner Associates, Inc. (WJE), serving as project engineer and project manager on over 400 projects, covering a variety of services, including structural investigations, construction materials evaluations, construction assessments, laboratory test programs, nondestructive testing, fire damage assessments, and facade investigations. He has been responsible for large-scale field and laboratory testing activities, including load tests of concrete and steel structures, structural integrity verification testing of nuclear containment vessels, load-response testing of buried piping, and long-term creep and shrinkage studies of concrete. Mr. Rowe has extensive experience in nondestructive testing of concrete structures to identify material quality degradation and internal discontinuities. This includes the use of through transmission ultrasonic and impact-echo testing techniques, as well as infrared thermography. He has authored papers and presented seminars on nondestructive testing of concrete, behavior of concrete exposed to fire, serviceability designs of slab-on-grade, and repair and rehabilitation of concrete.

Richard (Dick) Short is a consulting geotechnical engineer and the general manager for two large geologic hazard abatement districts. He has more than 40 years of experience in the civil/geotechnical-engineering field, including over 4,000 projects of all types. Some of Mr. Short's accomplishments include: past president of the Deep Foundations Institute and the California Geotechnical Engineers Association; current chairman of the DFI Educational Trust Board; and lecturer for the undergraduate foundation engineering course, University of California, Berkeley. He holds an MS in geotechnical engineering from UC, Berkeley, and a BS in civil engineering from the University of Nevada, Reno. Mr. Short was recognized as one of ENR magazine's 25 Top Newsmakers in 2005 and awarded the 2008 APWA Outstanding Project Award. He founded Slope Reinforcement Technology in 2006.

Frederick W. Slack, PE, is the chief engineer at Richard Goettle, Inc., where he has been employed for 37 years, beginning as a co-op student, which led to field assignments as project engineer and office assignments as project manager and lead designer. Mr. Slack was appointed chief engineer in 1996. He holds both a BSCE and an MS from the University of Cincinnati. Mr. Slack is registered in Ohio, Indiana, Pennsylvania, Michigan, and Alabama, and is a member of the Deep Foundations Institute (DFI), Association of Drilled Shaft Contractors (ADSC), American Society of Civil Engineers (ASCE), and the American Concrete Institute (ACI).

For Further Information

About Registration

Ed Keller, Conference Coordinator

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About Program Content

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November 5, 2009

Purdue University
West Lafayette, Indiana

Cosponsored by
Metropolitan Indianapolis Branch of ASCE
School of Civil Engineering, Purdue University

Sessions on:

Transportation

Structural

Hydraulics

Geotechnical

Management

CEPDS 24 Twenty-Fourth Annual Civil Engineering Professional Development Seminar

.6 CEUs Available!

7:30-8:30 a.m. Registration • East Foyer, Stewart Center

8:30-9:20 a.m. General Session: Creating a Positive Corporate Culture - *The Big Three Leadership Rules*, C. J. McClanahan, motivational speaker, founder and president of reachmore

11:30 a.m. Luncheon with Kathy Caldwell, ASCE president elect • North Ballroom, Purdue Memorial Union

STRUCTURAL Moderator: JD Taylor, PE, CE Solutions	TRANSPORTATION Moderator: Gary Mroczka, PE, INDOT	HYDRAULICS Moderator: Lenny Noens, PE, Stormwater and Floodplain Engineering, LLC	GEOTECHNICAL Moderator: Bill Dubois, PE, Patriot	MANAGEMENT Moderator: Michael Rowe, PE, United
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9:30-10:20 a.m. Session I — Introduction and Overview of Non-Destructive Evaluation (NDE) and Non-Destructive Testing (NDT)
Speaker: Thomas Rowe, SE, Wiss, Jannery, Elstner Associates

This session starts with an overview of NDE/NDT. Basic and advanced NDE/NDT for concrete structures will be described. Topics will include: visual inspection, Schmidt hammer, Winsdor probe, ultrasonic testing, covermeters, GPR, radiography, electrical potential, etc.

10:30-11:20 a.m. Session II — General Approach to NDE/NDT and Advanced Concrete Techniques
Speaker: Thomas Rowe, SE, Wiss, Jannery, Elstner Associates

This session will cover impact echo, ultrasonic shear wave, impulse response, infrared thermography, and laboratory techniques. Examples utilizing various methods will be presented, along with a review of the key features of a well-planned nondestructive testing program.

1:00 -1:50 p.m. Session III — NDE/NDT for Steel Structures
Speaker: Thomas Rowe, SE, Wiss, Jannery, Elstner Associates

This session covers NDE/NDT techniques for steel structures. Techniques discussed are magnetic particle, dye penetrant, ultrasonic, and strength evaluation.

2:2:50 p.m. Session IV — Design Loads During Construction
Speaker: Bob McCullough, PhD, PE, Purdue University

This session will cover the standard ASCE 37-02. This standard provides minimum design load requirements during construction for buildings and other structures. Topics include: loads and combinations, dead and live loads, construction loads, and environmental loads.

3-3:50 p.m. Session V — Design Loads During Construction Session
Speaker: Bob McCullough, PhD, PE, Purdue University

This session will look at various case studies of construction accidents caused by failures in temporary structures. Building and bridge examples will be discussed.

Seminar Leaders

Dave Bird has more than 35 years of experience as a geotechnical and geo-structural engineer. He is currently an independent consulting geotechnical engineer, working extensively with ATC Associates Inc., in their Indianapolis office as a geotechnical consultant. He began working with ATC in 2003, following a short period of retirement after selling Engineering and Testing Services, Inc. (ETS), the 200+ employee traditional geotechnical services consulting firm he owned with two partners, in 1999. At ETS he held the positions of president, principal engineer, and chairman of the board. Mr. Bird joined ETS in 1987 as a principal engineer and founded the branch office in the Detroit metropolitan area, which he directed until moving to the Indianapolis area in 1992. Prior to working at ETS, he was employed by Soil and Materials Engineers, Inc. (SME) now of Plymouth, Michigan; Daily and Associates Engineers, Inc. of Champaign, Illinois; and Gnaedinger, Baker, Hampton and Associates of Fairfax, Virginia. He has been registered in 10 states and currently maintains registration in Indiana, Illinois, Michigan, Wisconsin, Kentucky, and Virginia.

Mr. Bird has extensive practical design and construction experience in the areas of deep foundations (notably high-capacity drilled shafts and driven piles), earth retention systems, excavation retention and stability, grouting and structure underpinning, sheeting and bracing, earth and rock anchor tiebacks, including both the geotechnical aspects of design and the implementation of geotechnical recommendations through geo-structural engineering, and development of construction plans and specifications.

Ted Blahnik is a founding principal of Williams Creek Consulting and is a registered professional engineer, with extensive experience in ecological and environmental consulting. Mr. Blahnik's focus is the design and construction of natural systems for resource mitigation, stormwater management, and wastewater treatment. He has applied experience in the current practice of low impact development and LEED techniques for stormwater management in industrial, commercial, and residential developments. Mr. Blahnik holds a BS in civil engineering from the Georgia Institute of Technology and an MS from Louisiana State University.

Value Engineering Basics

Value engineering as defined by the Federal Highway Administration is the systematic application of recognized techniques to identify the function of a project or product; establishes a worth for that function; generates alternatives through the use of creative thinking; and as an outcome, provides the needed function, reliably, at the lowest overall cost.

With transportation revenue resources becoming increasingly scarce, today's transportation designers and project managers must have the necessary skills to foster and apply value engineering principles to all types and sizes of projects. Upon completing this track, attendees will be introduced to basic principles of value engineering; learn to recognize value engineering through real transportation project examples; examine methods of value engineering practice; and finally, be part of a workshop to apply the principles to a real INDOT transportation project.

9:30-10:20 a.m. Session I — Basic practices of Value Engineering
Speaker: Louis Feagans, INDOT Office of Project Management

This session will share the approach to applying value engineering practices to transportation projects. These include, but not limited to analyzing project components based on their function and cost, creatively identifying alternative solutions, methods of evaluating alternative solutions, and finally, developing the acceptable alternative for final recommendation.

10:30-11:20 a.m. Session II — Examples of Value Engineering
Speakers: Kevin Hetrick and Kenny Franklin, INDOT Office of Project Management

This session will review in detail how value engineering principles have been applied in the past to some INDOT projects.

1-1:50 p.m. Session III — Value Engineering Workshop, Part 1
Speakers/Facilitators: Gary Pence and Greg Kicinski, INDOT Office of Project Management

This is the first session in a two-part workshop to apply value engineering principles to an INDOT project that is currently in production.

2-3:50 p.m. Session IV — Value Engineering Workshop, Part II
Speakers/Facilitators: Gary Pence and Greg Kicinski, INDOT Office of Project Management; Gary Mroczka, Production Management, INDOT

The second session in a two-part workshop to apply value engineering principles to an INDOT project that is currently in production.

Louis E. Feagans, PE, has a BS in civil engineering from the University of Evansville and an MS in civil engineering from Purdue University. Mr. Feagans has over 20 years of experience in civil engineering and has spent the last five years as a project manager and project manager supervisor for INDOT. His recent projects include serving as project manager for I-465 Westside; I-69, Allen County, added travel lanes; and project manager supervisor for I-465 NE and U.S. 31 in Kokomo.

Kenny Franklin is a project manager at the Indiana Department of Transportation (INDOT). He earned his BS degree in education from Lee University in 1983. Before joining the INDOT Real Estate Division, he was a real estate professional. Mr. Franklin has been serving as a Major Moves project manager in the central office since 2000. Some of the added capacity projects he has worked on are: the I-74/Ronald Reagan Parkway Interchange; U.S. 231, Spencer County; U.S. 231, Dubois County; 641 Terre Haute bypass; U.S. 231 Lafayette bypass; S.R. 61, Booneville bypass; S.R. 14, Allen County; S.R. 135, Johnson County; U.S. 31; and S.R. 46, Columbus; and I-64, Floyd County. He spoke on utility coordination at last year's Road School and was recently appointed to the commissioner's Task Force on Utility Coordination.

John Hazelett is a native Hoosier who recently returned to Indianapolis and started working in the Indianapolis Office of Sustainability. Prior to this he lived in Portland, Oregon for seven years where he obtained a Masters in Environmental Planning at Portland State University and worked for the City of Portland in stormwater permitting and the cleanup of the Portland Harbor Superfund site.

9:30 -11:20 a.m. Session I-Session II — IPDDS
Speaker: David Knipe, Indiana Department of Natural Resources

The Division of Water of the Indiana Department of Natural Resources (IDNR) has introduced the Indiana Peak Discharge Determination System (IPDDS), an interactive Web-based mapping portal for determining hydrologic parameters and determining a peak discharge for study and regulatory purposes. The IPDDS uses links to the USGS Streamstats program and the Division of Water's Unity database to deliver peak discharge results for a selected discharge point, such as from the Indiana/Purdue regression equations, identical and similar results from IDNR's database, and nearby stream gage and coordinated discharge results. This information is then presented in a tabular and graphical format as an Excel spreadsheet file, which can then be analyzed to determining the final discharge. This session will feature the background of the various methods used, a demonstration of the application, and information on how the system will be applied for determinations requiring approval from the IDNR.

1-1:50 p.m. Session III — Case Studies
Speaker: Patrick C. Kerr, University of Notre Dame

Indiana has been identified as a major contributor of nutrients to the Mississippi River Basin. The resulting nutrient enrichment in U.S. rivers and the Gulf of Mexico has lead to hypoxic conditions. Nutrient uptake is the process by which carbon, nitrogen, and phosphorus are absorbed by the ecosystem. By following a few general design guidelines and using sound engineering judgment, in accordance with an understanding of the biogeochemical processes that are occurring, channels and ponds can feasibly be designed to maximize nutrient uptake. Several examples from across the country will be used to illustrate the functional significance of aquatic ecosystem features and how engineers can integrate them into the design process. Special consideration will be made for topics such as construction methods, canopy cover, bed/bank material, plan form/geomorphic elements, and vegetation.

2-2:50 p.m. Session IV — EPA
Speaker: Bob Newport, US Environmental Protection Agency

This workshop will focus on how wet weather management—i.e., stormwater, combined sewer overflows, sanitary sewer overflows and nonpoint source runoff—can be effectively managed using green infrastructure technologies and approaches.

3-3:50 p.m. Session V — Case Studies
Speakers: John Hazelett, City of Indianapolis; Ted Blahnik, Williams Creek Consulting

This workshop will focus on case studies for green infrastructure technologies and approaches for (1) the City of Indianapolis combined sewer watershed and (2) Hoover Reservoir watershed protection in Columbus, Ohio.

Kevin Hetrick graduated from Valparaiso University in 2002 and has worked for INDOT for the past seven years. For five years, he was a construction project engineer in INDOT's Greenfield District, and for past two years has worked as a project manager in INDOT's Central Office. Current projects that he is working on include the Louisville—Southern Indiana Ohio River Bridges.

Salim Ilmudeen, PE, is a senior project engineer at Patriot Engineering and Environmental, Inc. He has more than 15 years of experience and has performed foundation engineering design and geotechnical engineering for a wide variety of projects, including high-rise buildings, airport terminals, landslides, tunnels, deep excavations, and retaining structures. Mr. Ilmudeen has extensive knowledge in deep foundation systems, geotechnical instrumentation, and field tests. He has a MS in civil engineering from Texas Tech University and is a licensed professional engineer.

Patrick C. Kerr is a professional licensed engineer in the state of Indiana. He is currently pursuing a PhD at the University of Notre Dame, where he is modeling hurricane storm surge along the Louisiana coast. A graduate of the University of Evansville, Mr. Kerr has worked on engineering projects in Maryland, Pennsylvania, Delaware, Indiana, and Michigan, most notably the expansion of the National Aquarium in Baltimore and the remediation of

9:30-10:20 a.m. Session I — Earth Retention
Speaker: Dave Bird, ATC Consultants

Mr. Bird has been involved with the design and construction of numerous sheeting, bracing, and earth retention systems during the nearly four decades of his career. His talk will include discussion of the design and construction considerations on some of the more interesting and enlightening projects that he has worked on. The discussion will include the stabilization of a century-old, timber pile-supported Wakefield Sheeting river bulkhead along the Detroit River, and the stabilization of a landslide over 100 feet in length and nearly 50 feet high, in two days of construction time, in southwestern Indiana, adjacent to an addition to an existing drywall processing plant, through the use of four-foot cubes of waste concrete stacked 28 feet high. He will also discuss the methods used for designing a sheet pile anchor wall for retaining a railroad embankment during construction of a new bridge for the railroad, when the sheeting retaining the embankment is too close to the anchorage sheeting to permit typical active and passive earth pressure methods.

10:30-11:20 a.m. Session II — Cut Walls
Speakers: Frederick Slack, PE, Richard Goettle, Inc.

This session will consist of “do's and don't's” regarding earth retention and a review of the design and construction of the Queen City Square Tower and North Garage at Third and Sycamore Street in Cincinnati. It was an urban site, with cuts ranging from 38 to 65 feet.

1-1:50 p.m. Session III — Cut Walls
Speaker: Scott Ludlow, PhD PE, Earth Exploration, Inc.

The Indiana Department of Transportation is close to adopting a new performance-based recurring special provision for permanent earth retention systems involving cut-wall applications. These systems use a “top down” method of construction to accommodate: grade separations with limited right-of-way, lengthening of bridges, and stabilization of landslides. Traditionally, these systems have consisted primarily of gravity and semi-gravity walls. During the last several years, however, numerous alternative systems have been introduced into the marketplace that do not require “an excavation to construct a fill.” These systems are undergoing continuing modifications because of advances in analysis techniques, interpretation of field performance data, construction methods, materials, and equipment. Owing to the large number of available systems, selection of a specific system for use on a project may not be straightforward for planners, designers, engineers, or owners, as several may be viable. This talk presents the general topic of cut walls and salient points in the provision, including: contracting approach, wall selection, required elements (geometric data, and design and performance requirements), typical costs, and review and approval.

2-2:50 p.m. Session IV — Landslide Repair
Speaker: Salim Ilmudeen, PE, Patriot Engineering and Environmental, Inc.

One of the primary methods of landslide repair or stabilization includes retaining structures where available right-of-way or space is limited. Properly designed retaining structures provide relatively high resistance to slide. Case studies from two recent landslides are discussed, with site conditions, analysis of various retaining wall options, and the final design of the selected retaining wall systems.

3-3:50 p.m. Session V — A New Method for Repairing Landslides
Speaker: Richard Short PE, President, Slope Reinforcement Technology, LLC

The Platepile method of slope stabilization is a practical, relatively low cost technology for installing vertical steel reinforcement into an unstable slope. Shallow slides can be repaired at less than half the cost of the “remove and replace” earthwork method. The presentation will review the research program including full-scale landslide testing combined with mathematical modeling, the design technology, and the case histories showing various applications.

Communication and Time Management
Speaker: C.J. McClanahan

9:30-10:20 a.m. Session I

Setting Clear Expectations — Before you can improve the performance of your team, it is absolutely critical that they know exactly what they need to do to get a raise, earn a promotion, and make you happy. In this session, you'll learn simple strategies for setting expectations.

10:30-11:20 a.m. Session II

The DISC Profile — Do you ever wonder why your coworkers need to know all the details before moving on to the next topic? We all come to work with a different behavioral style and our approach affects the way in which we communicate and receive information. During this session, we will examine the four basic behavioral profiles and their strengths and weaknesses.

1-1:50 p.m. Session III

Purpose/Vision/Mission — 2009 is different from 1989. Your employees no longer come to work to just earn a paycheck. They need to feel that they are fulfilling a purpose and making a difference in the world. This session will help you understand the basic components of a powerful statement of purpose.

2-2:50 p.m. Session IV

Conflict — Most professionals spend the majority of their day avoiding conflict. Attend this session and you will learn why healthy conflict is so important in the workplace and how to ensure that it takes place in a positive fashion.

3-3:50 p.m. Session V

E-mail — Are you running your day or is your e-mail running your day? If you are like most, you are probably obsessed that little envelope in the lower left hand corner of your computer screen. This session will provide you with some powerful strategies for effectively managing your e-mail.

Planning Committee

Bob McCullough	Purdue University
Steve Weintraut	Butler, Fairman & Seufert
J.D. Taylor	CE Solutions
Dick O'Connor	ROAW
Jerry Frost	Frost Engineering
Kenneth Smith	IDNR- Water
Ross Snider	USI
Michael Eichenauer	Butler, Fairman & Seufert
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Michael Rowe	United
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Walt Land	INDOT
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Lenny Noens	Stormwater & Flood Plain Engineering
David Pluckebaum	Corradino
Phil Kuntz	Janssen & Spaans
Scott Ludlow	Earth Exploration Inc.

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