Drilling on the River

Kennedy Mill Bridge Exploration
2017 NDA Membership Roster
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To receive additional information about products advertised in this issue, contact vendors above.

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### JUNE Events

- **JULY MINING EXPO**
  - June 5 - 9, 2017
  - Elko Convention & Visitors Authority
  - Elko, Nevada

- **SOUTH ATLANTIC JUBILEE**
  - June 10 - 12, 2017
  - Myrtle Beach Convention Center
  - Myrtle Beach, South Carolina

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## DIEDRICH DRILL

### D-50 Drill Rig

The D-50 is our premiere, all-purpose drill rig for the environmental and geotechnical drilling industry. With up to 9,100 ft lbs of spindle torque, it can power through most any job! Whether it is the D-50’s ability to be mounted on a variety of carriers, or its superior drilling capability with augers, soil sampling, coring or probing, you can be sure you have a versatile drill that has the ability to get you where you need to go and the power to get the job done!

**D-50 Track units available soon!**

**Call us for more details!**

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**YOUR ONE-STOP SHOP FOR RIGS AND TOOLING FOR OVER 40 YEARS**

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Kennedy Mill Bridge Exploration

2017 NDA Membership Roster

Safety is the Issue

New Members

Calendar - Inside Back Cover

About the Cover
Stantec utilized an in house sectional barge to serve as a working platform while drilling under the Kennedy Mill Bridge in Kentucky. See article on page 5

The National Drilling Association is a nonprofit trade association of contractors, manufacturers and affiliated members representing the geotechnical, environmental and mineral exploration drilling industry. The NDA mission is to promote the use of professional drilling contractors and their methods. Founded in 1972, NDA has 250 international member companies.
Acker Celebrates 100 Years with the Revolutionary New REBEL

To celebrate our 100th year in the drilling industry, we have released a game-changing new drill rig - the Acker REBEL. The design of the REBEL is based on many years of drillers’ feedback. Our most common request was for a compact drill rig with incredible versatility and power, which the REBEL achieves. AND...with the REBEL you will no longer lose bids due to lack of angle drilling capability or clearance. Many said this package could not be done, but the REBEL is here and it hits the sweet spot on all fronts.

Notable features include:

- Turbo-Charged Tier 4 Final engine.
- Drill Head offers big torque and high RPM. A powerhouse for Geotechnical, Environmental, and Rock Coring.
- Compact package (6 ft. wide).
- Capable of drilling under 13 ft. clearance with full use of Auto-Hammer.
- Simple and efficient angle drilling capability.
- Engine Tilt allows for drilling on hillsides up to 45 degrees.
- Dump Mast allows for convenient mast positioning when drilling angle holes or on uneven terrain.
- Recovery Winch operates in conjunction with the tracks. Ideal for stable tramming on slopes.
While recently preparing for a presentation on the history of the National Drilling Association (NDA), I have become more aware than ever of the contributions made by previous presidents to our organization. In doing my research I looked back over the past 45 years. In that time, things in the association have went fairly smooth, with just a few bumps in the road. I can’t help but admire the advances that have taken place in the NDA over the years. This is due in large part to the efforts made by previous officers, board members and committees by focusing on the goals of the organization. I’d also say that in this day of e-mail, texting and other means of communication, there has been a renewed comprehension and respect for how difficult it must have been for past presidents to accomplish what they did to make the NDA such a successful organization in its fourth decade of existence. We continue to promote safety, training and professionalism in the drilling industry and to provide our members the tools for the future. Our organization has grown, both through our chapters and nationally, because of our past leaders’ efforts and dedication to the NDA.

Throughout the years of being involved with NDA, I have been lucky enough to meet many of the members that include drilling contractors, manufacturers, vendors, and other supporters. I am proud of the fact that the veteran members often reach out to the newer members to make them feel welcome. I want to thank them for their involvement and for supporting me during my research documenting the history of the NDA.

We in the industry constantly face many challenges, just like we have in past years, and there’s no doubt that we’ll continue to have greater challenges in the future. It is imperative that we accept the fact that what we’re doing now is never enough and we must always stay driven by the goals of the NDA and continue working together as one team to keep our association strong and thriving.

A great way to learn more about the “History of the National Drilling Association” is to attend our annual convention that will be held in Marlborough, Massachusetts on September 21 & 22, 2017. We hope that everyone will take the time to come network and gain knowledge from the educational sessions, motivational speakers, workshops and vendor trade show. You don’t want to miss it!

Thank you and looking forward to seeing everyone in Marlborough!

Sincerely,

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KY 152 – Kennedy Mill Bridge Exploration

Submitted by Benjamin A. Halada, P.E., Stantec

The Kentucky Transportation Cabinet (KYTC) is in the process of replacing the Kennedy Mill Bridge which carries Kentucky Highway 152 over Herrington Lake in central Kentucky. The bridge, which connects Mercer County to Garrard County, has a history intertwined with the nearby Dix Dam. In 1923, construction began on Dix Dam located several miles downstream of the bridge. Part way through the construction of the dam, construction of the Kennedy Mill Bridge began.

The Kennedy Mill Bridge had to incorporate the Dix Dam impoundment into the final design. Specifically, the depth of the resulting impoundment, Herrington Lake, had to be considered as well as the geometry of the surrounding bedrock. Prior to the construction of either structure, the Dix River carved its path through the central Kentucky bedrock resulting in sheer cliff walls on the Mercer County side and an approximate 1H:1V slope on the Garrard County side.

The proposed impoundment height of nearby Dix Dam resulted in the design and construction of two 250 feet tall piers for the Kennedy Mill Bridge. The piers were constructed oblong in shape and hollow as if they were chimneys for a factory. These two tall piers along with a third shorter pier support the 752 foot span of the bridge.

Shortly after completion of the bridge and impoundment of Herrington Lake, the tallest pier nearest the Mercer County side started to move. By 1936, the pier had moved 30 inches vertically and tilted upstream and toward Mercer County by 12 inches. The actual cause of the movement was never determined but theories abound.

Fast forward to 2011 when KYTC performed a Data Needs Analysis Study to look at replacement options for the bridge. In spring 2013, Stantec performed vertical and angled borings on the Mercer County side to determine if fractures existed in the area of the proposed abutment. In fall 2014, Stantec was tasked with performing a Geotechnical Exploration for two proposed piers. At the proposed pier locations, the water depth ranged from 15 feet to 180 feet. Water of this depth, the 1H:1V slope and the lack of overburden did not allow for the use of spuds to stabilize a barge. If it weren’t for the 1H:1V slope and the sheer cliff face, concrete deadmen set 1,000 feet away and steel cables could have been used. Tying off to the existing bridge pier was out of the question. After reviewing several other options, it was decided to use a dive team to install anchor points into the bedrock cliff and 1H:1V slope.

Divers installed a series of anchor points 15 to 50 feet below the water surface and at a 45 degree angle from the corners of the barge. Steel cables, up to 500 feet in length, were connected to the anchor points and to the barge. Stantec utilized an in house sectional barge to serve as a working platform for the drilling. The cables could not be directly connected to the barge, so four “legs” were built that would connect to the barge’s existing female/male locking system. The legs were 10 feet in length and extended into the water about four feet. A winch was placed on top of the leg and two pulleys, one at the top and one at the bottom of the leg, directed the cable along the length of the leg. The winch cable was then connected to the steel cables that ran from the anchor points. Utilizing the system of four legs each with an independent winch, the crew was able to move and position the barge over the boring locations.

One boring was drilled for each of the eight proposed drilled shaft locations. Six inch steel casing was set to the bottom of the lake. At the deep water locations, the casing was driven through and held in place by ten feet of sediment and weathered rock. At the eight boring locations, HQ size rock coring was performed to depths of 70 to 100 feet below the lake bed. The bedrock formation was competent, consisting

continued on page 7
As a leading drilling industry advocate for safe mineral exploration, geotechnical and environmental drilling operations, the National Drilling Association has instituted a Safety Award Program to recognize its drilling contractor members' outstanding safety performance. The program allows drilling contractors of similar size to compete for an award based on their incident rates. Safety Award recipients will be honored, each year, at the NDA Annual Convention. Original application documents must be submitted to the NDA office by June 30th. For more information about the Award Program and how you can submit a nomination, please visit www.nda4u.com.
KY 152 — Kennedy Mill Bridge Exploration

continued from page 5

of limestone and limestone interbedded with shale. RQD typically measured from the high 80’s to low 90’s and unconfined compressive testing ranged from 10,000 psi to 25,000 psi. Penetration rates averaged 60 feet per day.

The rock coring went well once the crew became comfortable using the positioning system and setting the casing, but the project was not without complications. This work was performed during a rainy October which presented two problems. First, drawdown to winter pool occurs during October and secondly, rainfall resulted in fluctuating water levels; therefore, the crew had to monitor the slack / tension in the cables else the barge would move and knock the casing / core rods out of vertical or sink the barge. Admittedly, one HQ core barrel and 100 feet of six inch casing were left on the bottom of the lake.

Safety is of utmost priority on any drilling job, but its importance is magnified when working on the water. This project was completed safely because of the experience, planning and training of the drill crew. Due to its complex nature, barge work should be carefully evaluated and planned before arriving onsite.

In Memory of Roger Eisler

Roger Eisler passed away November 20, 2016 in Somerset, Pennsylvania at the age of 76. Roger was well known in the drilling industry, particularly in the northeast where he represented Central Mine Equipment Company for almost 37 years. He placed CME equipment with many companies throughout the region and, along the way, made many friends. This was very evident with the showing of appreciation following his retirement at the end of last year.

Prior to working with CME, Roger had his own coal exploration drilling company, R.J.Eisler Drilling. He was also a veteran of the U.S. Navy.

Roger enjoyed golf and playing cards at the Somerset Country Club where he was a past board member. He was a member of F & AM Lodge 358, the Grace United Methodist Church, and a former member of the Somerset Jaycees.

Roger was a father, a friend, an asset to our industry. He will be missed.
**News from Atlas Copco**

**DM30 II - Mid-Range Rotary Blasthole Drilling Rig**

The new Atlas Copco DM30 II is proving itself just as successful in the United States as it has overseas. Modeled after the DM45 and DML, the DM30 II is also similar to the DM30, which has more than 30 years of safe, efficient, high-production blasthole drilling.

The DM30 II is ideal for the large quarry market, filling the gap between some larger and smaller drill rigs in the Atlas Copco range. The Atlas Copco DM30 II features a 30-foot drill pipe changer and a standard 4-rod carousel. With a starter rod under the rotary head, the DM30 II has a total depth capacity of 145 feet.

The DM30 II comes to the U.S. with a Cummins Tier 4 Final engine, an Atlas Copco 1050 cfm high pressure compressor and is capable of both rotary and DTH applications. Other features include an ergonomic interior design, spacious electric-over-hydraulic cab, a robust I-beam frame, increased deck and component access, improved rod handling and breakout, auto thread lube, head up tram interlock and grease manifold. Atlas Copco reviewed operator requests to create a wider range of optional features.

**Fully Automated Simba S7**

Underground operations have the flexibility of modular automation in a longhole drill rig built for small spaces and tough conditions with the Atlas Copco Simba S7. The Simba S7 and its precise drilling ensures higher productivity with less waste. The Simba S7 offers the precision, reliability, and flexibility of add-on automated features in a rig designed to operate in small to medium drifts.

Modular automation allows drillers to choose from a range of features beginning with ABC Regular, a one-hole automation system. ABC Regular enables options like Drill Plan Handling and Void Detection, and the Extractor for greater control throughout more of the drilling process in broken rock conditions, even fully automated drilling.

Full automation offers the greatest enhancement in overall productivity by maintaining optimum drilling parameters for every hole in the pattern, as well as allowing operations to continue through shift changes and breaks.

**PowerROC T45**

Drillers in the construction, aggregate and limestone quarrying industries have a powerful yet highly flexible new surface drill rig with low cost of ownership. The Atlas Copco PowerROC T45, with telescoping boom, drills precise holes from 3 to 5 inches in diameter.

The PowerROC T45 rig’s superior reliability, penetration rate and ease of maintenance are based on the characteristically straightforward, modular design of the PowerROC series. The basic rig configuration comes equipped with RD 22S hydraulic rock drill and 370 cfm air compressor.

The Power Eco feature of the PowerROC T45 saves on fuel consumption by allowing the operator to select one of three engine speeds – 2,000 rpm, 2,100 rpm or 2,200 rpm. Fuel economy will vary by rock conditions. However, in soft rock conditions drillers on average have seen 10 percent or greater reduced fuel consumption.

A 20-foot lead rod plus a three-rod, carousel-style rod handling system gives the operator an on-board depth capability to 54 feet with single pass capability of 18 feet.

A hydraulic smooth drilling system controls the rock drill power level, feed force and rotation torque in response to changing rock conditions. Auto-collaring and fully progressive anti-jam makes drilling smooth from start to finish and increases the life of drill accessories.

Service and maintenance of the PowerROC T45 are easy and economical due to design features such as an adjustment-free hydraulic drilling system.
WEDNESDAY, SEPTEMBER 20
Exhibitor Set-Up - 4:00 PM to 8:00 PM

THURSDAY, SEPTEMBER 21
Exhibitor Set-Up - 9:00 AM to 2:00 PM
Golf Outing - 8:30 AM - Location and cost to be announced
Cocktails & Visit with Exhibitors - 5:00 PM to 6:00 PM in Exhibitor Area
President's Dinner and “Murder Mystery” - 6:30 PM
Award Presentations and Chinese Raffle - 8:00 PM

FRIDAY, SEPTEMBER 22
Presentations and Visit with Exhibitors - 7:00 AM to 4:00 PM with Breakfast, Morning & Afternoon Breaks & Lunch
Exhibitor Breakdown - 4:00 PM (After last presentation)

EXHIBITOR TABLES
$550 for NDA members
$770 for Non-members

Includes the above for one person working at the exhibitor table, plus your company logo with link on the NDA website home page, a listing in the Convention Program Guide, signage at event, a listing in Convention promotional materials, acknowledgement in Drill Bits magazine and during awards dinner.

One Additional Person working at the exhibitor table:

$200 - Members
$300 - Non-members

REGISTER BY JUNE 30TH AND SAVE 10% ON YOUR TABLE!

SPONSORSHIPS
All sponsorships include: your company logo with link on the NDA website home page, a listing in the Convention Program Guide, a listing in Convention promotional materials, acknowledgement in Drill Bits magazine and during awards dinner—as well as special signage at event!

$165 - Golf Outing Tee Sponsor
$610 - AM Break Sponsor, PM Break Sponsor
$1650 - Cocktail Sponsor, Appetizer Sponsor, Breakfast Sponsor
$1650 - Entertainment Sponsor
$2200 - Lunch Sponsor

Promo Item Sponsor - Contact the NDA office

Hotel information and exhibitor/sponsor form are on reverse side.
EXHIBITOR/SPONSOR REGISTRATION FORM

Please Fill Out Completely

(company for additional registrants)

Company Name________________________________________________________ Phone__________________________

Address___________________________________City____________________State______Zip Code____________

Primary Table Staff Person______________________________________________________ E-mail Address____________________________

Additional Table Staff__________________________________________________________ E-mail Address____________________________

Companies and employees may attend the Convention one time as a non-member. To attend future Conventions you will be asked to become a member.

EXHIBITOR TABLE REQUEST - Save 10% if you register before June 30, 2017

_____ Please reserve one (1) 8-foot skirted table for my company ($550 for Members, $770 for Non-members).

_____ Convention registration fees and all meals for one (1) person. 

_____ I will have (LIMIT ONE) additional registrant at my table ($200 per person for members; $300 per person for non-members). (Fee includes convention registration and all meals.) Please list name above. Limited to one additional person at this rate. Other additional staff will need to pay the regular Convention Attendance Rate. Early Bird $275 for members; $450 for non-members)

_____ I will require electrical hook-up. ($55 fee for 110 volt, bring your own extension cord and surge protector.)

_____ I have a backdrop display

Are you interested in displaying your Rigs and/or Equipment at the upcoming NDA Convention? Please provide us with what you will be displaying and the area you will need for your display. Cost – If you have an exhibitor table there is no additional fee (space permitting), if you do not have an exhibitor table you must pay the exhibitor table fee.

_____ Yes, I would like to display ________________________________

I would need ______________ space. The size of the Rig/Equipment is _______________________________

To help us with our food count, please indicate how many of your registrants will be attending the Thursday President's Dinner: ____________

SPONSORSHIP REQUEST - I would like to purchase the following sponsorship(s):

_____ Golf Outing Tee Sponsor(s) - $165

_____ AM Break Sponsor - $610

_____ PM Break Sponsor - $610

_____ Lunch Sponsor - $2200

_____ Appetizer Sponsor - $1650

_____ Cocktail Sponsor - $1650

_____ Breakfast Sponsor - $1650

_____ Lunch Sponsor - $2200

_____ Entertainment Sponsor - $1650

_____ Cocktail Sponsor - $1650

We are also looking for someone to sponsor a promo item. If you are interested, please contact the NDA office for more information

GOLF OUTING

_____ Sign me up for the golf outing on Thursday, Sept. 21 - Cost and location to be announced (Indicate # you are registering.)

REFUND POLICY: Cancellation between now and August 24th - refund will be 90%. Cancellation between August 25th and September 8th - refund will be 50%. NO REFUNDS after September 8th.

Signature of Primary Registrant________________________________________________________

By signing this form you agree to the NDA Exhibitor Rules & Regulations. If you have any questions, please call the NDA office at 877-632-4748.

PAYMENT MUST ACCOMPANY APPLICATION.

Or fill out the charge form below and fax to the NDA at 216-803-9900.

Please return completed application to: National Drilling Association, 4036 Center Road, Suite B, Brunswick, OH 44212

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Credit Card Billing Address________________________

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Associate Members
Protect Yourself from Poisonous Plants

Not only can plants create a great deal of discomfort to an individual, they can also cause lost work hours as well as medical claims. As we enter into the spring and summer growing seasons, precautions need to be taken and should be factored into your tailgate safety meetings as well as your overall safety plan. Poisonous plants are no joke; just ask anyone that has had their eyes swollen shut for a few days. I urge you to talk with your employees about the susceptibility to variations of poisonous plants. It is in the best interest of the employees as well as the employers to mitigate as much as the potential exposure as possible. The following is some general guidelines and precautions from the Department of Health and Human Services to help protect you and your employees. Any person working outdoors is at risk of exposure to poisonous plants, such as poison ivy, poison oak, and poison sumac. When in contact with skin, the sap oil (urushiol) of these plants can cause an allergic reaction. Burning these poisonous plants produces smoke that, when inhaled, can cause lung irritation.

Workers may become exposed through:

- Direct contact with the plant
- Indirect contact (touching tools, animals, or clothing with urushiol on them)
- Inhalation of particles containing urushiol from burning plants

**Symptoms of Skin Contact**

- Red rash within a few days of contact
- Swelling
- Itching
- Possible bumps, patches, streaking or weeping blisters

**NOTE:** Blister fluids are not contagious

**First Aid**

If you are exposed to a poisonous plant:

- Immediately rinse skin with rubbing alcohol, poison plant wash, or degreasing soap (such as dishwashing soap) or detergent, and lots of water.
  - Rinse frequently so that wash solutions do not dry on the skin and further spread the urushiol.
- Scrub under nails with a brush.
- Apply wet compresses, calamine lotion, or hydrocortisone cream to the skin to reduce itching and blistering.
  - Oatmeal baths may relieve itching.
- An antihistamine may help relieve itching.
  - NOTE: Drowsiness may occur.
- In severe cases or if the rash is on the face or genitals, seek professional medical attention.
- Call 911 or go to a hospital emergency room if you have a severe allergic reaction, such as swelling or difficulty breathing, or have had a severe reaction in the past.

**Protect Yourself**

- Wear long sleeves, long pants, boots, and gloves.
  - Barrier skin creams, such as lotion containing bentoquatum, may offer some protection.
  - After use, clean tools with rubbing alcohol or soap and lots of water. Urushiol can remain active on the surface of objects for up to 5 years.
  - Do not burn plants or brush piles that may contain poison ivy, poison oak, or poison sumac.
  - Inhalation smoke from burning plants can cause severe allergic respiratory problems.

When exposure to burning poisonous plants is unavoidable, employers should provide workers with:

- A NIOSH-certified half-face piece particulate respirator rated R–95, P–95, or better. This recommendation does NOT apply to wildland firefighters, who may require a higher level of protection.
- These respirators should protect against exposure to burning poisonous plants, but will not protect against all possible combustion products in smoke, such as carbon monoxide.
- Respirators must be worn correctly and consistently throughout the time they are used.
- For respirators to be effective there must be a tight seal between the user’s face and the respirator.
- Respirators must be used in the context of a written comprehensive respiratory protection program (see OSHA Respiratory Protection standard 29 CFR 1910.134).
- For more information about respirators visit www.cdc.gov/niosh/npptl/topics/respirators/
Plant Identification

Poison Ivy
- Eastern poison ivy is typically a hairy, ropelike vine with three shiny green (or red in the fall) leaves budding from one small stem
- Western poison ivy is typically a low shrub with three leaves that does not form a climbing vine
- May have yellow or green flowers and white to green-yellow or amber berries
- Found across the United States, except California, Alaska, and Hawaii

Poison Oak
- Typically a shrub with leaves of three, similar to poison ivy
- Pacific poison oak may be vine-like
- May have yellow or green flowers and clusters of green-yellow or white berries
- Found primarily the Southeast and West Coast

Poison Sumac
- Woody shrub that has stems that contain 7-13 leaves arranged in pairs
- May have glossy, pale yellow, or cream-colored berries
- Found abundant along the Mississippi River and boggy areas of the Southeast

Information from:
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<tr>
<th>TYPE OF MEMBERSHIP</th>
<th>REGULAR</th>
<th>ASSOCIATE</th>
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<td>Manufacturer</td>
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<td>Contractor or Non-Contractor Drilling Co.</td>
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<td>Consultant</td>
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<tr>
<td>Supplier or Distributor (Domestic or Foreign)</td>
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<tr>
<td>Interested Persons, Companies, Associations, or Government Agencies Not Eligible for Regular Membership (Domestic or Foreign)</td>
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<tr>
<td>Students or Employees of Member Government Agencies</td>
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<tr>
<td>Retired</td>
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**NDA MEMBERSHIP DUES RATE SCHEDULE** (Please Circle Your Dues Amount)

Membership is valid for twelve months. You will be invoiced 60 days prior to your renewal date.

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<th>Gross Sales</th>
<th>Manufacturer</th>
<th>Contractor or Non-Contractor Drilling Co.</th>
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<th>Supplier or Distributor (Domestic or Foreign)</th>
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Manufacturer – Persons, firms, and/or corporations who manufacture products for the drilling industry.
Contractor – Persons, firms, and/or corporations who own and operate one or more drill rigs and contract for services.
Non-Contractor – Company that owns rigs and provides their own drilling, e.g.– engineering or mining company.
Consultant – Self-employed consulting individual and/or consulting firm.
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- Golf Outing: 8:30 AM - $95; Location to be announced
- Cocktails & Visit with Exhibitors: 5:00 PM to 6:00 PM
- President's Dinner and “Murder Mystery”: 6:30 PM
- Award Presentations and Chinese Raffle: 8:00 PM

FRIDAY, SEPTEMBER 22
- Presentations and Visit with Exhibitors: 7:00 AM to 4:00 PM
- with Breakfast, Morning & Afternoon Breaks & Lunch
- Presentation topics to be announced

Royal Plaza Hotel & Trade Center, 181 Boston Post Road W, Marlborough, MA 01752 is just 35 miles west of Boston. Hotel amenities include an indoor heated pool, fitness center, game room, and gift shop. Call (888) 543-9500 to make your reservations and be sure to mention “National Drilling Association” to receive the NDA Rate of $129 per night. Deadline to receive the NDA Rate is August 30th. The hotel has limited rooms available - reserve early!

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President’s Dinner and “Murder Mystery”- 6:30 PM
Award Presentations and Chinese Raffle - 8:00 PM

FRIDAY, SEPTEMBER 22
Presentations and Visit with Exhibitors - 7:00 AM to 4:00 PM
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Registration form on reverse side.
**REGISTRATION FORM**

Please Fill Out Completely

Name_________________________________________ Company Name_________________________________________

Address_________________________________ City________ State____ Zip Code________

Phone__________________ E-mail ______________________________________________________________________

**NUMBER OF FULL CONVENTION ATTENDEES:** Early Bird price is $275 for members and $450 for non-members. After August 1st price is $375 for members and $500 for non-members. *(Includes: Cocktails, President’s Dinner, Breakfast, Presentations, Outdoor Static Displays, Lunch and Breaks)*

Names: ________________________________
______________________________________

**SPOUSE:** $115 *(Includes: President’s Dinner and Cocktails)* Name of Spouse (if attending)

**NUMBER OF EMPLOYEE DAY PASSES - FRIDAY ONLY:** Price is $50 for members and $175 for non-members. **For each FULL CONVENTION ATTENDEE registered from your company, you can purchase Day Passes for up to five (5) employees from your company i.e. Field Employees, Drillers, etc. MUST be purchased by Friday, September 15 at 5:00 pm EST** *(Includes: Breakfast, Presentations, Outdoor Static Displays, Lunch and Breaks on Friday)*

Names: ________________________________
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**NUMBER ATTENDING GOLF OUTING:** $95; Location TBA. Must be registered for Full Convention to attend golf outing

Names: ________________________________
______________________________________

If Continuing Education credits (CEs) are needed, list name of person(s) requiring credits and state(s) in which person(s) are licensed :

____________________________________________________________________________________________________________

____________________________________________________________________________________________________________

To help us with our food count, please indicate how many of your registrants will be attending the Thursday President’s/Murder Mystery Dinner & Chinese Raffle: __________

Companies and employees may attend the Convention one time as a non-member. To attend future Conventions you will be asked to become a member.

**REFUND POLICY:** Cancellation between now and August 24th - refund will be 90%. Cancellation between August 25th and September 8th- refund will be 50%. **NO REFUNDS after September 8th.**

**TOTAL DUE:** __________________

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JUNE
Elko Mining Expo
June 5 - 9, 2017
Elko Convention & Visitors Authority
Elko, Nevada
http://www.elkocva.com/major_events/elko_mining_expo/index.php

South Atlantic JUBILEE
June 10 - 12, 2017
Myrtle Beach Convention Center
Myrtle Beach, South Carolina
http://www.jubileewatershow.com/

SEPTEMBER
Association of Environmental & Engineering Geologists
Annual Meeting
September 10 - 16, 2017
Antlers Hilton Colorado Springs
Colorado Springs, Colorado
http://aegweb.site-ym.com/events/event_list.asp

National Drilling Association Convention
September 21 - 22, 2017
Royal Plaza Hotel & Trade Center
Marlborough, Massachusetts
www.nda4u.com

DECEMBER
American Mining Association Convention & Short Courses
December 3 - 8, 2017
Nugget Casino Resort
Sparks, Nevada
http://www.miningamerica.org

National Ground Water Association Expo
December 5 - 7, 2017
Music City Center
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