The Independent Petroleum Association of America (IPAA) and the Petroleum Equipment & Services Association (PESA) are committed to energy education outreach through the IPAA/PESA Energy Education Center. With the support of the IPAA/PESA Education Advisory Board and critical corporate and individual sponsorships, the IPAA/PESA Energy Education Center is achieving an unprecedented level of success preparing the next generation of talented professionals who will lead the oil and natural gas industry forward.

The number of jobs in science, technology, engineering and mathematics, or STEM, will continue to grow in all industries, including oil and gas. To meet this need, our programs educate middle school and high school students, teachers and industry professionals about the oil and gas industry and its careers.

Please join us in our continuing efforts to support this industry-changing partnership with education.

Barry Russell
IPAA President & CEO

The IPAA/PESA Energy Education Center supports energy education outreach by providing oil and gas industry education in six broad areas:

1. Award-winning High School Petroleum Academies
2. Middle School STEM Career Exploration Initiative
3. A Competitive student Extern Program
4. Consulting Services (national and international)
5. Live and/or Customized, In-house Oil & Gas Courses*
6. Industry-focused eLearning Online Courses*

*SUPPORT Industry Education Today!
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brussell@ipaa.org | 202.857.4735

Anne Ford, Senior Vice President, IPAA/PESA Energy Education Center
aford@ipaa.org | 281.798.2334

www.ipaa.org/education
Inspire young minds
80% of jobs this decade will require STEM skills, but only 40% of middle school students envision themselves with a STEM career.

Experiential learning
IPAA and PESA are seeking organizations to play a leading role in helping students explore STEM careers in a fun, impactful and innovative way.

Design your future
Empowering students with the knowledge of the incredible opportunities available in the oil and natural gas industry with a STEM education.

HIGH SCHOOL PETROLEUM ACADEMIES
Preparing students for degrees and careers in the oil and natural gas industry.

EXTERN PROGRAM
An unique opportunity for high school juniors/seniors and college freshmen to work alongside career professionals and learn from the best.

INDUSTRY COURSES
Providing a variety of courses to those currently in the industry and those looking to learn more.

EXPLORING ENERGY CONFERENCE
Providing high school students with a glimpse into what a career in the oil and natural gas industry could look like for them.

MIDDLE SCHOOL CAREER EXPLORATION
Power Your Future
Giving middle school students the information they need to pursue STEM classes in high school and beyond.

CONSULTING SERVICES
Helping organizations get similar programs started in their school districts and towns.

Sample Middle School STEM Career Exploration Cards

Power Your Future
- CAREER DESCRIPTION
  Includes sections on Sample Projects, Skills Required, Education, and Average Salary
- HOW TO GET THERE
  Includes sections on Starting Today, Classes to Take, and Down the Road

Geologist
- Sample Projects
- Skills Required
- Education
- Average Salary

Petroleum Engineer
- Sample Projects
- Skills Required
- Education
- Average Salary

Landman
- Sample Projects
- Skills Required
- Education
- Average Salary

Sample Middle School STEM Career Exploration Cards

Geologist
- Sample Projects
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- Sample Projects
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- Sample Projects
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Our Biggest Needs
FOR ORGANIZATIONS TO:
• Sponsor our core programs
• Sponsor our yearly fundraisers
• Host student externs in the summer
• Provide custom giveaways with logo for us to use at events
• Encourage employees to participate in AmazonSmile and/or an employee match program

Fundraisers
2020 YEARLY FUNDRAISERS
Oil & Gas Overview Courses | February 4 & August 11
These courses are hosted by NAPE during their semi-annual shows and qualify for CPE, CPD, and AAPL recertification credits. The courses have an upstream focus with some midstream information and thoroughly cover: industry structure, petroleum geology and exploration, mineral rights and leasing, drilling and completion, and development and production operations.

Wildcatters’ Ball | February 7
This annual, black tie event features a guest speaker, superb cuisine, a captivating silent auction, and opportunities to renew old friendships and make new acquaintances all while enjoying a live band. Buy a table and bring your coworkers and/or clients for a night of good food, wine and fun.

Wildcatters’ Sporting Clays | September 17
This event features door prizes, team prizes and great networking opportunities.

ONGOING FUNDRAISERS
NEW! Online Donations – Did you know you can now make donations online? Please consider making a donation and helping us spread the word by telling your colleagues.

AmazonSmile – AmazonSmile donates 5 percent of your eligible purchases to a charity of your choice and our IPAA Educational Foundation is now listed as a charity option! This is a simple and automated way to support your favorite charitable organization every time you shop, at no cost to you!

eLearning Courses – We currently offer two courses online:
1) Petroleum Geology for Non-Geologists
2) U.S. Mineral Rights and Leasing
They are media-rich and information-packed. Upon completion, AAPL members receive 10 recertification credits.

In-house Oil & Gas Courses – We’ve partnered with Energy Training Resources, LLC and now offer customized courses to companies who are looking to train an entire department or function group.

Visit www.ipaa.org/education

IPAA/PESA EDUCATION ADVISORY BOARD
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Alicia Dodge | Senior Land Advisor, Walter Oil & Gas Corporation
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Kelsey Hulett | Director, Sales Operations, NOV Rig Systems
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Paul Parsons | Managing Director, Energy Training Resources, LLC
Jonathan Rhoads | Partner, Lowry Rhoads Associates
John Royall | President & CEO, Gulf Energy Information
Mark Rubin | CEO & Executive Vice President, Society of Petroleum Engineers
Trina Sadberry | Head of Communications, Eni
Kathleen A. Sauvé | Manager, Stakeholder and Community Engagement, Marathon Oil Company
Wesley Scott | Retired, Occidental Petroleum
Ryan Sitton | Commissioner, Railroad Commission of Texas
Letha Slagle | Chair, Educational Outreach Committee, Houston Geological Society, retired, Shell
Lane Sloan | President, Sloan Consulting Services
Mary Spruill | Executive Director, National Energy Education Development Project
Jamie Vazquez | President & CEO, Tanglewood Energy Partners LLC
Bob Warren | Vice President, International Association of Drilling Contractors
Fred Whipple | Vice President, HR US Employee Relations/DI, Shell Oil Company
Dave Wright | President & CEO, Dale Carnegie Austin/Houston

AT LEFT: Paul Parsons with Energy Training Resources, LLC, our Industry Courses partner, leading the Oil & Gas Orientation Course in Houston.
<table>
<thead>
<tr>
<th><strong>A Snapshot of Success</strong></th>
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<tbody>
<tr>
<td><strong>HIGH SCHOOL PETROLEUM ACADEMIES</strong></td>
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<tr>
<td>Provides high school students with a multidisciplinary, advanced academic learning experience in science, mathematics and the emerging technology concepts needed to pursue professional training and degrees in engineering, geology, geophysics and global energy management in the oil and natural gas industry.</td>
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<tr>
<td>• 1,500 currently enrolled; 3,200 graduates</td>
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<td>• Two-thirds of the students are economically disadvantaged</td>
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<td>• 41% female participation</td>
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<tr>
<td>• Significant impact on 1st generation college participation</td>
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<tr>
<td>• $1 million in college scholarships awarded</td>
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| **EXTERN PROGRAM** |
| Provides professional development and job shadowing opportunities for future STEM and business students at various petroleum exploration, production and service company locations in Texas. |
| • High school juniors/seniors and college freshmen are eligible each summer |
| • More than 750 student industry externships awarded |
| • More than 35 participating oil and natural gas companies |
| • Increasing numbers each year since inception in 2010 |

| **INDUSTRY COURSES** |
| We’ve partnered with Energy Training Resources, LLC and created a variety of courses to those currently in the industry and those looking to learn more. The proceeds from these courses are reinvested into the Energy Education Center making it a win-win for the industry. We currently offer: |
| • Public Courses |
| • In-house/Customizable Courses |
| • eLearning Courses |
| Our courses are reasonably priced, have had nearly 800 combined attendees, and are accredited through various organizations. |

| **EXPLORING ENERGY CONFERENCE** |
| This conference aims to educate high school students about the oil and natural gas value chain, and STEM careers in geology, business, engineering, supply chain management, landman, and computer science. |
| • Nearly 2,000 high school students |
| • 20 distinguished industry speakers |
| • 30 participating companies |
| • 60 college volunteers |

| **MIDDLE SCHOOL CAREER EXPLORATION** |
| Students go through interactive simulations to see ‘STEM in their world’ and are introduced to inspiring careers they never knew existed. |
| • 34 schools in the Permian Basin, Texas and New Mexico |
| • Over 2,500 students engaged in nearly 4,600 hours of learning |
| • 125% improvement in assessment scores |
| • 59% of students say the curriculum made them want to do better in science & math |
| • 47% of students say it helped them identify the steps to pursue a career in STEM |
| • 92% of teachers would recommend the course to a friend or colleague |
| • 82% of teachers say it covered content their students would not have seen otherwise |
| • 35 STEM Career Cards |

| **CONSULTING SERVICES** |
| The IPAA/PESA Energy Education Center has provided guidance to organizations seeking to get similar programs started in their school districts and towns, nationally and internationally. In 2019, we provided guidance to 6 organizations to help launch their programs and are looking forward to more partnerships in years to come. |