The Independent Petroleum Association of America (IPAA) and the Petroleum Equipment & Services Association (PESA) are committed to educational outreach through the Houston-based 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 gas industry forward.

Over the next decade, the number of jobs in science, technology, engineering, and mathematics, or STEM, industries including oil & natural gas is expected to grow 50 percent faster than in non-STEM industries. Filling these jobs is both a need for our future economy and an amazing opportunity for students, but we must first empower students with the knowledge of STEM career paths within their reach.

To meet this need, the IPAA/PESA Energy Education Center has embarked on a new digital STEM Career Exploration program designed for middle school students. Research shows that grades 6-9 are particularly critical years, and that entering high school with an interest in STEM is the most important determinant of graduating with an interest in STEM.

Learners engage with interactive content and familiar environments to show them STEM in their world. Virtual career cards are integrated within the digital learning experience that expose students to STEM roles relevant to their interests.

Please join us in our continuing efforts to support this industry-changing partnership with education, funded solely by the charitable contributions of organizations and individuals to the IPAA Educational Foundation, a 501(c)(3) organization.

Barry Russell
IPAA President & CEO

SNAPSHOT > IPAA/PESA PETROLEUM ACADEMIES
• 3,200 graduates
• 1,500 enrolled for the 2019-20 school year
• Two-thirds of students are economically disadvantaged
• 41% female participation
• Significant impact on 1st generation college participation
• $1,000,000 in college scholarships awarded
• 750 student Oil & Gas industry externships awarded

www.ipaa.org/education

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

1. Award-winning High School Petroleum Academies
2. NEW! Middle School STEM Career Exploration Initiative
3. Live and/or Customized, In-house Oil & Gas Courses*
4. Industry-focused eLearning Online Courses*

*Sponsorship proceeds from these courses benefit the Energy Education Center

Top: PESA President, Leslie Beyer with IPAA/PESA Petroleum Academy alumni and students. Left: IPAA/PESA Energy Education Center 2019 Teacher of the Year, Brandi Fisher, Houston Middle School, Hobbs, NM, with PESA President, Leslie Beyer and IPAA President and CEO, Barry Russell.

SUPPORT Industry Education Today!
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Anne Ford, Senior Vice President, IPAA/PESA Energy Education Center a ford@ipaa.org | 281.798.2334
High School Petroleum Academies

Providing 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.

**KEY COMPONENTS**
- Guest Speaker Lecture Series
- Industry and College Visits
- Industry-related Competitions
- Student Camps
- Externship Program
- Dale Carnegie Training
- Teacher Training
- Teacher of the Year Award
- Community Service
- Energy Clubs
- Scholarships for College
- Alumni Group
- IPAA Emerging Leaders Group

**Middle School STEM Career Exploration Initiative | Power Your Future**

**FEATURES**
- Students go through interactive simulations to see ‘STEM in their world’ and are introduced to inspiring careers
- Scalable to support national distribution
- 35 career cards feature key skills, educational requirements, average salary data
- Introduces students to real-life STEM careers
- Valuable, supplementary resource material for teachers provided

**LAUNCH**
- Multi-school/state/nationwide digital initiative to inspire future STEM generations
- Launched in the Permian
- 22 schools in 9 school districts in 2 states
- 1,250 students in 2018-19 school year

**Sample STEM Career Exploration Cards**

- **Geologist**
- **Petroleum Engineer**
- **Landman**

**OUR PROGRAMS**

Since 2006, the IPAA/PESA Energy Education Center has inspired high school students in enhanced STEM curriculum through its five engineering, geoscience and leadership academies at high schools in the Houston and Fort Worth Independent School Districts. We are now proud to launch a digital STEM initiative at the Middle School level.
EDUCATION is important in EVERY stage of life, whether you are new to the industry or have had a successful career and just need a refresher.

Industry Training

Bring value to your own organization while supporting the IPAA Educational Foundation. IPAA offers live, eLearning and customized, in-house oil & gas training courses with proceeds benefiting the IPAA/PESA Energy Education Center. Check out the courses below and become involved today!

LIVE OIL & GAS COURSES www.ipaa.org/education/courses

Oil & Gas Overview Courses
Held at the George R. Brown Convention Center in Houston
Hosted by NAPE
- August 20, 2019
- February 4, 2020
- August 11, 2020

CEUs available: GARPCPD, NASBA CPE and AAPL recertification

Oil & Gas Orientation for Newcomers to the Industry
Held at the Houston Museum of Natural Science
- November 19, 2019

Available Now:

- Petroleum Geology for Non-Geologists*
- U.S. Mineral Rights and Leasing*
- Drilling Video: From Planning to Production

Coming Soon:

- Oil & Gas Overview Course
- Drilling and Completion
- Joint Operations

* Qualifies for 10 American Association of Professional Landmen (AAPL) recertification credits

CUSTOMIZED, IN-HOUSE COURSES

Please contact Nikki Thomas at nthomas@ipaa.org.

Sponsor the IPAA/PESA Energy Education Center

Every dollar raised helps us continue making an impact in students’ lives. We have sponsorship opportunities for every budget. Visit www.ipaa.org/education/about for a list of sponsorship opportunities.