FROM OUR CO-CHAIRMEN

For nearly 15 years, the IPAA/PESA Energy Education Center has inspired students with enhanced STEM curriculum, preparing the next generation for successful careers in our industry. Through industry booms and busts, and most recently a pandemic, we continue to bring educational opportunities to students of all walks of life, and we need your support.

The Energy Education Center promotes energy education outreach and early career development opportunities to diverse communities, to educate, inspire, and provide a pipeline from middle school to employment and leadership in all energy sectors and seeks to introduce secondary education and college students to the energy industry and its many possibilities, while also cultivating the necessary skills for them to be successful throughout their careers.

The Energy Education Center provides STEM, business, leadership development, soft skills, mentoring, and technical opportunities for secondary education and college students as well as teachers interested in energy – from oil & natural gas to alternative energy – through competitions, guest speakers, externships, scholarships, and industry partnerships. Our Career Center is a place where companies who have invested in the Energy Education Center can go to search when hiring, and where graduates can continue to stay connected and give back to others in the pipeline.

While 2020 stressed our industry, it also brought much stress to teachers and students as classrooms went to a virtual learning format. Many school districts, including Houston Independent School District (HISD), were completely virtual for the fall semester and will be phasing students back into the classroom throughout the year. We are focusing on supporting students and teachers throughout this next school year, and need your support now more than ever as we innovate to meet the challenges of the day.

Over summer 2020, we took our 11th annual extern program online, where we virtually brought special guests, virtual tours, interview mentoring, and executive meet and greets to students ages 16-20. We look forward to offering in-person and/or virtual programs over this school year in accordance with health and school officials’ rules and guidance.

I encourage you to read here about the Energy Education Center’s approach, and learn more in this brochure about our programs and how you and your company can get involved with the Center. If you have any questions, contact Anne Ford at aford@ipaa.org or 281.798.2334. We’d love to have you on board, so please do not hesitate to reach out.

Sincerely,

Barry Russell, President & CEO, IPAA

Galen Cobb, Vice President, Industry Relations, Halliburton

PESA Executive Committee

Bill White, Former Mayor of Houston

Chairman Lazard Houston

APPROACH

Our all-inclusive approach encourages students to dream big by introducing them to current energy leaders while also providing the necessary tools, trainings, and programs along the way. While our programs are available to everyone, we believe that access should never be an issue which is why we choose to focus on serving economically disadvantaged and under-served communities.

We strive to continue building on our foundation of strong relationships with secondary education, colleges, industry associations, energy companies of all sizes, energy industry professionals and volunteers to reach a greater number of students.

SUPPORT ENERGY EDUCATION TODAY! ▶ Contact Anne Ford at aford@ipaa.org or 281.798.2334
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 energy sector with a STEM education.

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

1. High School Exploring Energy Program
2. Middle School STEM Career Exploration Program
3. A Competitive student Extern Program
4. Consulting Services (national and international)
5. Virtual and In-house Oil & Gas Courses*
6. Industry-focused eLearning Online Courses*

*PROCEEDS BENEFIT THE ENERGY EDUCATION CENTER

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SNAPSHOT
- 9,000 total students impacted
  - 3,500 petroleum academy graduates
  - 3,000 middle school students
  - 2,500 Exploring Energy Program students and students from other ancillary programs
- 71 total schools impacted
- Middle school STEM career exploration program offered to 57 Permian Basin counties
- $1 million in college scholarships awarded
- 41% female participation
- 794 competitive externships awarded with 36 oil and gas companies
- Demographics reflect diversity of the school communities we serve:
  - 61% Hispanic
  - 26% Black
  - 8% White
  - 3% Asian
- Three-fourths of students economically disadvantaged
- Significant impact on first generation college participation

Key Programs | Energy Education Center

Partnerships with industry (such as AABE, HGS, SPE, AAPL, BAFTX, CEA, NAPE, AFPM, OTC, OEC, SIPES, etc.) and higher education to advance energy education through:

Middle School Initiative
- STEM career exploration
- Teacher educational enrichment
- Parent portal

Field Experiences and Camps
- STEM and leadership camps
- Industry and college field trips

Guest Speakers
- Exploring energy careers
- Serving students and teachers
- Empowering industry volunteers

Competitions
- Team building
- STEM skills reinforcement
- Establishing a parent connection

Emerging Energy Leaders
- Alumni Group
- Supports mentoring

Externships, Co-Op Programs, and College Internships
For Students
- Job-shadowing with scholarships
- Leadership development
- Resume preparation
- Job interviewing skills
- Business experience
- Exposure to energy economics
- Mentoring
- Professional presentations
- Building on parent connection
- Dale Carnegie Youth Leadership training
- Energy industry training
- Energy clubs

For Teachers
- Dale Carnegie and industry training
- Job-shadowing with stipend
- Excellence Awards

Scholarships
- Encouraging higher education
- Serving economically disadvantaged youth

Career Center
- Place for companies to search when hiring

Industry Courses
Providing a variety of courses to those currently in the industry and those looking to learn more.
- Virtual Courses
- In-house Courses
- eLearning Online Courses
- Public Courses (on hold)
- Partnered with Energy Training Resources, LLC

Consulting Services
Helping organizations start similar programs in their school districts/towns.
In the 2020-2021 school year, we are supporting teachers and students with these two key programs:

- **High School Exploring Energy Program**
  - **Offered Nationally**
    
    Access for teachers to a catalog of different energy and STEM related topics which can be used on demand, as well as providing guest speakers and project mentoring (both virtual and live). When students graduate from the Exploring Energy Program they can become members of IPAA’s Emerging Leaders in Energy program.

    Sponsors receive recognition on our event webpage, when we are promoting the program within the schools and throughout the community. Special recognition is available for higher level sponsors.

    *PHOTOS FROM THE 2019 PROGRAM*

- **Middle School STEM Career Exploration Program**
  - **Offered in 57 counties in the Permian, west Texas and southeast New Mexico**

    Through a series of online interactive modules and quizzes students learn about the science, technology, engineering and math (STEM) that is all around them and, based on their interests and strengths, possible STEM careers in which they could excel. STEM career exploration cards provide students with sample projects, skills required, education and average salary. They also provide students with a roadmap of how to get there (i.e. classes to take now and down the road).

    Sponsors receive recognition on our event webpage, when we are promoting the program within the schools and throughout the community. Career card creation is available for higher level sponsors.

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**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

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**Geologist**

- **CAREER DESCRIPTION** Geologists study the rocks, minerals, fossils, landforms, and the layers of the Earth’s surface. They also study how and why the Earth has changed over time.
- **SAMPLE PROJECTS** Create a map that shows the rock types and land structures of an area. Use software to create a model of what the Earth is made of below the surface.
- **SKILLS REQUIRED** Analysis, Science, Writing
- **EDUCATION** Bachelor’s or Master’s Degree
- **AVERAGE SALARY** $89,780

**Petroleum Engineer**

- **CAREER DESCRIPTION** Petroleum engineers design and supervise the development of energy resources. They work on projects ranging from oil and gas production to nuclear power.
- **SAMPLE PROJECTS** Create a database that tracks the flow of oil and gas through pipelines.
- **SKILLS REQUIRED** Geology, Chemistry, Statistics
- **EDUCATION** Bachelor’s Degree
- **AVERAGE SALARY** $95,000

**Landman**

- **CAREER DESCRIPTION** Landmen are responsible for the legal aspects of owning and leasing land. They ensure that landowners have the right to access and use the land.
- **SAMPLE PROJECTS** Analyze land ownership and lease agreements.
- **SKILLS REQUIRED** Business Acumen, Negotiation, Writing
- **EDUCATION** Bachelor’s Degree
- **AVERAGE SALARY** $60,000

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**Virtual Exploring Energy**

**IPAA/PESA Energy Education Center**

*Photos from the 2019 Program*
DONATE TODAY!
Corporate contributions have ranged between $25,000 to $250,000. The IPAA Educational Foundation is a 501(c)(3).

CONTACT
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281.798.2234

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Washington, DC 20005

VISIT www.ipaa.org/education

THANK YOU TO OUR SUPPORTERS
There has been wide cross-section of industry support from companies and organizations including:

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President & CEO
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Galen Cobb
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