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 the first half of 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), are 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 afrd@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

SUPPORT ENERGY EDUCATION TODAY! Contact Anne Ford at afrd@ipaa.org or 281.798.2334
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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**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:

<table>
<thead>
<tr>
<th>Middle School Initiative</th>
<th>Externships, Co-Op Programs, and College Internships</th>
<th>Scholarships</th>
<th>Career Center</th>
<th>Industry Courses</th>
<th>Consulting Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>• STEM career exploration</td>
<td>- Job-shadowing with scholarships</td>
<td>• Encouraging higher education</td>
<td>• Place for companies to search when hiring</td>
<td>Providing a variety of courses to those currently in the industry and those looking to learn more.</td>
<td>Helping organizations start similar programs in their school districts/towns.</td>
</tr>
<tr>
<td>• Teacher educational enrichment</td>
<td>- Leadership development</td>
<td>• Serving economically disadvantaged youth</td>
<td>• Virtual Courses</td>
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</tr>
<tr>
<td>• Parent portal</td>
<td>- Resume preparation</td>
<td>• Industry Courses</td>
<td>• In-house Courses</td>
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<td>• Industry Courses</td>
</tr>
<tr>
<td><strong>Field Experiences and Camps</strong></td>
<td>- Job interviewing skills</td>
<td>• Competitions</td>
<td>• eLearning Online Courses</td>
<td>• eLearning Online Courses</td>
<td>• Consulting Services</td>
</tr>
<tr>
<td>• STEM and leadership camps</td>
<td>- Business experience</td>
<td>- Team building</td>
<td>• Public Courses (on hold)</td>
<td>• Public Courses (on hold)</td>
<td>• Consulting Services</td>
</tr>
<tr>
<td>• Industry and college field trips</td>
<td>- Exposure to energy economics</td>
<td>• STEM skills reinforcement</td>
<td>• Partnered with Energy Training Resources, LLC</td>
<td>• Partnered with Energy Training Resources, LLC</td>
<td>• Consulting Services</td>
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**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

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**SNAPSHOT**

- **6,200** total students impacted
  - **3,500** petroleum academy graduates
  - **2,700** middle school students
- **53** 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
- **1,300** Houston-area students and teachers attended the 2019 Exploring Energy Program
- Significant impact on **first generation** college participation

PESA President, Leslie Beyer with Energy Education Center alumni and students.
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**

- 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.

**Petroleum Engineer**

- 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.

**Landman**

- 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.

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**Geologist**

- **EDUCATION** Bachelor’s or Master’s Degree
- **AVERAGE SALARY** $89,780

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**Petroleum Engineer**

- **SKILLS REQUIRED**
  - Analysis
  - Science
  - Writing

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**Landman**

- **STARTING TODAY**
  - Geology
  - Chemistry
  - Statistics

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**DOWN THE ROAD**

- Volunteer at a local organization or nature center that studies the land in your area.
DONATE TODAY!
Corporate contributions have ranged between $25,000 to $250,000. The IPAA Educational Foundation is a 501(c)(3).

CONTACT
Anne Ford, Senior Vice President
aford@ipaa.org
281.798.2234

MAIL TO | IPAA Educational Foundation
Attention: Anne Ford
1201 15th Street, NW, Suite 300
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:

STUDENTS SPEAK AT THE IPAA/PESA EDUCATION ADVISORY BOARD MEETING
Students who competed in the 2019 Offshore Technology Conference (OTC) Energy Challenge and placed second, shown here with IPAA President and CEO Barry Russell. These same students were also 2019 externs at Equinor, ExxonMobil and Noble Energy. Education Board Member Paul Parsons, with Energy Training Resources, LLC, worked alongside the students assisting with their preparation for the competition.
## IPAA/PESA Education Advisory Board

### Co-Chairmen

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Barry Russell</td>
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<td>Bill White</td>
<td>Former Mayor of Houston; Chairman, Lazard Houston</td>
</tr>
<tr>
<td>Annell Bay</td>
<td>Board Director, Apache Corporation</td>
</tr>
<tr>
<td>Leslie Beyer</td>
<td>President, Petroleum Equipment &amp; Services Association</td>
</tr>
<tr>
<td>Upasana Bhatia</td>
<td>Senior Reservoir Engineering Planner, Noble Energy</td>
</tr>
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### Members

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<tr>
<td>Earl Childress</td>
<td>Senior Vice President, Business Development, Oceaneering</td>
</tr>
<tr>
<td>Aaron Cobb</td>
<td>Vice President, Commercial &amp; Trading, ExxonMobil Fuels &amp; Lubricants Company</td>
</tr>
<tr>
<td>Zac Creach</td>
<td>Sales Executive, Americas, Rigzone</td>
</tr>
<tr>
<td>Alicia Dodge</td>
<td>Senior Land Advisor, Walter Oil &amp; Gas Corporation</td>
</tr>
<tr>
<td>Patricia Edwards</td>
<td>Senior Vice President &amp; Chief Human Resources Officer, EOG Resources</td>
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<tr>
<td>Jim Eisterhold</td>
<td>Retired, Newfield Exploration</td>
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<tr>
<td>Dr. Delesa Franklin</td>
<td>School Support Officer, Houston Independent School District</td>
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<tr>
<td>Erica Frederick</td>
<td>Reservoir Manager, Southwestern Energy</td>
</tr>
<tr>
<td>James Geary</td>
<td>Manager, Exploration, US GOM, Total E&amp;P</td>
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<tr>
<td>Harris Ghozali</td>
<td>Managing Director, Lazard</td>
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<tr>
<td>Barry Glickman</td>
<td>President-Surface, TechnipFMC</td>
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<tr>
<td>Paula McCann Harris</td>
<td>Retired, Schlumberger</td>
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<tr>
<td>Steven Hinchman</td>
<td>Chairman, IPAA, President &amp; CEO, Scala Energy</td>
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<tr>
<td>Kelsey Hulett</td>
<td>Director, Sales Operations, NOV Rig Systems</td>
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<tr>
<td>Bernadette Johnson</td>
<td>Vice President, Strategic Analytics, Enverus</td>
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<tr>
<td>Joy Jones</td>
<td>American Association of Blacks in Energy; Internal Controls Specialist, EOG Resources</td>
</tr>
<tr>
<td>Stephen M. Jones</td>
<td>Co-Chairman, EnerVest</td>
</tr>
<tr>
<td>Dr. Ramanan Krishnamoorti</td>
<td>Chief Energy Officer, University of Houston</td>
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