FROM OUR CO-CHAIRMEN

For over 15 years, the IPAA Energy Workforce 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 Education Center promotes energy education outreach and early career development opportunities to diverse communities, to educate, inspire, and provide a pathway 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 Education Center provides STEM, business, leadership development, soft skills, mentoring, and technical opportunities for secondary education and college students as well as educators interested in energy – from oil & natural gas to alternative energy – through competitions, guest speakers, externships, scholarships, and industry partnerships.

While 2020 and 2021 stressed our industry, it also brought much stress to educators and students as many classrooms went to a virtual learning format. We are focusing on supporting students and educators, and need your support now more than ever as we innovate to meet the challenges of the day.

I encourage you to read here about the 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
Energy Educators Chair
Vice President – Industry Relations
Halliburton

SUPPORT ENERGY EDUCATION TODAY! ▶ Contact Anne Ford at aford@ipaa.org or 281.798.2334

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.
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 Energy Workforce 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 Energy Workforce Education Center supports energy education outreach by providing energy education in five broad areas:

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

*PROCEEDS BENEFIT THE EDUCATION CENTER*

<table>
<thead>
<tr>
<th><strong>SNAPSHOT</strong></th>
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<tbody>
<tr>
<td>• 41,000 total students impacted</td>
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<tr>
<td>• 238 total schools impacted</td>
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<tr>
<td>• Middle school STEM career exploration program offered to 57 Permian Basin counties</td>
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<tr>
<td>• $1+ million in college scholarships awarded</td>
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<td>• 41% female participation</td>
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<td>• 795 competitive externships awarded with 37 oil and gas companies</td>
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<td>• Demographics reflect diversity of the school communities we serve:</td>
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<tr>
<td>- 61% Hispanic</td>
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<td>- 26% Black</td>
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<td>- 8% White</td>
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<tr>
<td>- 3% Asian</td>
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<tr>
<td>- Three-fourths of students economically disadvantaged</td>
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<tr>
<td>• Significant impact on first generation college participation</td>
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Energy Workforce & Technology Council President, Leslie Beyer with Education Center alumni and students.

**History of Key Programs Developed and Implemented**

<table>
<thead>
<tr>
<th><strong>Middle School Initiative</strong></th>
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<tbody>
<tr>
<td>• STEM career exploration</td>
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<tr>
<td>• Teacher educational enrichment</td>
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<td>• Parent portal</td>
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<tr>
<th><strong>Field Experiences and Camps</strong></th>
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<tbody>
<tr>
<td>• STEM and leadership camps</td>
</tr>
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<td>• Industry and college field trips</td>
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<tr>
<th><strong>Guest Speakers</strong></th>
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<tr>
<td>• Exploring energy careers</td>
</tr>
<tr>
<td>• Serving students and teachers</td>
</tr>
<tr>
<td>• Empowering industry volunteers</td>
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<tr>
<th><strong>Competitions</strong></th>
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<tr>
<td>• Team building</td>
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<td>• STEM skills reinforcement</td>
</tr>
<tr>
<td>• Establishing a parent connection</td>
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<th><strong>Scholarships</strong></th>
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<tr>
<td>• Encouraging higher education</td>
</tr>
<tr>
<td>• Serving economically disadvantaged youth</td>
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<tr>
<th><strong>Industry Courses</strong></th>
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<tr>
<td>Providing a variety of courses to those currently in the industry and those looking to learn more</td>
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<tr>
<th><strong>Virtual Courses</strong></th>
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<tr>
<td>In-house Courses</td>
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<tr>
<td>eLearning Online Courses</td>
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<tr>
<td>Public Courses</td>
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<tr>
<td>Partnered with Energy Training Resources, LLC</td>
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**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 Educators**
- Dale Carnegie and industry training
- Job-shadowing with stipend
- Excellence Awards
- Financial incentives

**Emerging Energy Leaders**
- Alumni Group
- Supports mentoring

**Consulting Services**
Helping organizations start similar programs in their school districts/towns

**What We Are Doing Currently**
Permian-Based Middle School Career Exploration Program
www.ipaa.org/education/middle-school

National High School Virtual Exploring Energy Program
www.ipaa.org/education/exploring-energy
This school year, we are supporting educators and students with these two key programs:

Secondary School Virtual Exploring Energy Program
Offered Nationally

Access for educators to a catalog of different energy, STEM and business-related topics which can be used on demand, as well as providing guest speakers and project mentoring. When students graduate from the Virtual 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.

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.

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
Petroleum Engineer
Landman

2021 Virtual Exploring Energy prize recipients and certificate program participants.

VISIT US! www.ipaa.org/education/exploring-energy
THANK YOU TO OUR SUPPORTERS
There has been wide cross-section of industry support from companies and organizations including:

STUDENTS SPEAK AT THE IPAA ENERGY WORKFORCE 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.
<table>
<thead>
<tr>
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<th>Title/Position</th>
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<tr>
<td>Galen Cobb</td>
<td>Energy Educators Chair, Vice President – Industry Relations, Halliburton</td>
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<tr>
<td>Annell Bay</td>
<td>Board Director, Apache Corporation</td>
</tr>
<tr>
<td>Upasana Bhatia</td>
<td>Tamar Asset Lead, Chevron</td>
</tr>
<tr>
<td>Earl Childress</td>
<td>Senior Vice President, Business Development, Oceaneering</td>
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<tr>
<td>Aaron Cobb</td>
<td>Vice President, Commercial &amp; Trading, ExxonMobil Fuels &amp; Lubricants Company</td>
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<tr>
<td>Zac Creach</td>
<td>Sales Executive, Americas, Rigzone</td>
</tr>
<tr>
<td>Molly Determan</td>
<td>Chief Operating Officer, Energy Workforce &amp; Technology Council, Southwestern Energy</td>
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<tr>
<td>Alicia Dodge</td>
<td>Senior Land Advisor, Walter Oil &amp; Gas Corporation, EOG Resources</td>
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<td>Byron Dunn</td>
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<td>Patricia Edwards</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>
</tr>
<tr>
<td>Dr. Delesa Franklin</td>
<td>School Support Officer, Houston Independent School Dist.</td>
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<tr>
<td>Erica Frederick</td>
<td>Technology &amp; Data Science Manager, Southwestern Energy</td>
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<tr>
<td>James Geary</td>
<td>Manager, Exploration, US GOM, TotalEnergies E&amp;P</td>
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**IPAA Energy Workforce Education Advisory Board**
Jeffrey Lund  
Society of Independent Professional Earth Scientists, Public Relations Chair & VP  
Corridor Oil & Gas LP

Evelyn Medvin  
Retired  
Core Laboratories

Erik Milito  
President  
NOIA

Derrick Morgan  
Senior Vice President, Federal & Regulatory Affairs, American Fuel & Petrochemical Manufacturers

Mark Papa  
CEO & President  
Centennial Resource Development, Inc.

Paul Parsons  
Managing Director  
Energy Training Resources, LLC

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