

MIDDLE SCHOOL STEM CAREER EXPLORATION PROGRAM

IPAA/PESA ENERGY EDUCATION CENTER



Our **online** program helps **middle school** teachers provide interactive and engaging content to their students while also introducing them to career paths in the energy industry.

Since the program's inception in 2018, **2,694 students** have completed **5,364 hours** of learning from **57 counties** in the **Permian, west Texas** and **southeast New Mexico**.

PROGRAM ALSO INCLUDES:

(PICTURED BELOW)

- STEM events with industry volunteers
- Blog contest
- Teacher of the Year

▶ **NEW!** Parent portal added to help parents during the pandemic.



'POWER YOUR FUTURE'

45+ STEM Careers Explored through Career Cards



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.

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.

EDUCATION

Bachelor's or Master's Degree

SKILLS REQUIRED



Analysis



Science



Writing

AVERAGE SALARY

\$89,780

"I liked the ease of using the program and I appreciated the higher level of learning it provided."

– Teacher in Texas

THANK YOU TO OUR SPONSORS



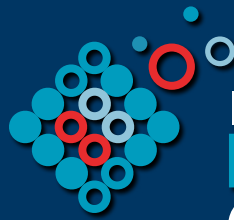
Make a Difference – Get Involved Today!

SPONSORSHIPS AVAILABLE Contact Anne Ford at aford@ipaa.org or 281.798.2334	DIAMOND \$50k+	PLATINUM \$20k+	GOLD \$10K - \$20K	SILVER \$5K - \$10K
Company name/logo in media releases	◆			
Company name/logo listed in marketing to teachers and schools	◆	◆		
Company name/logo on social media	◆	◆		
Company name/logo on flyer	◆	◆	◆	
Company name/logo listed on industry ads	◆	◆	◆	
Company name mentioned in board meetings and other public speaking engagements	◆	◆	◆	◆
Company name/logo on website	◆	◆	◆	◆
Company name/logo in brochure	◆	◆	◆	◆

**IPAA/PESA 'Power Your Future'
Middle School STEM Career Exploration Program
For the Permian Basin**

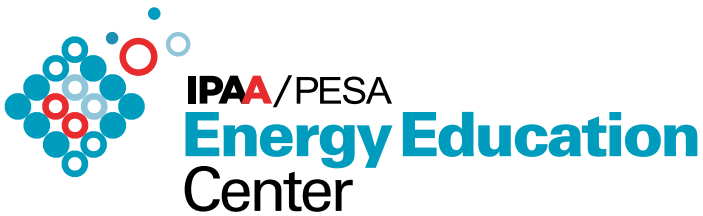
Itemized Project Budget

1.	Locations: West Texas and SE New Mexico	
2.	Program branding: AAPL as a major sponsor	
3.	Implement program in an additional 20+ schools by spring 2022	\$75,000
4.	Outreach to school districts	\$10,000
5.	Teacher training	\$10,000
6.	1 to 2 STEM careers events at Permian middle schools	\$10,000
7.	Student blog contest	\$20,000
8.	Teacher excellence awards	\$20,000
9.	Publicity and promotion & promotional item for all students and teachers using the program	\$5,000
10.	Total	\$150,000



IPAA/PESA
Energy Education
Center





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.

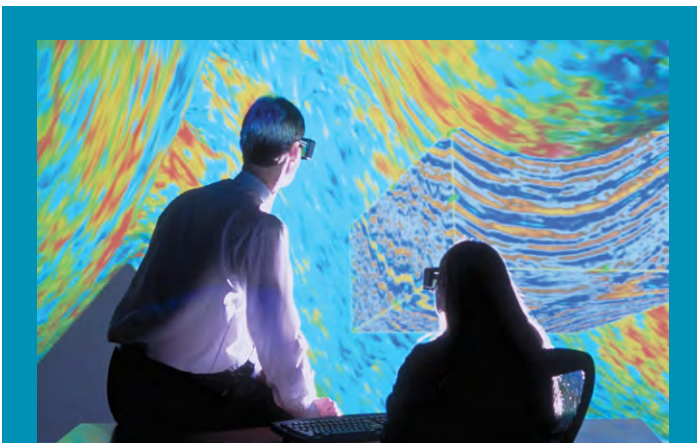
I encourage you to read here about the **Energy Education Center's** approach, and learn more in this brochure about our programs and how you and your company can get involved with the Center. If you have any questions, contact Anne Ford at aford@ipaa.org or 281.798.2334. We'd love to have you on board, 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



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

► 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

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:

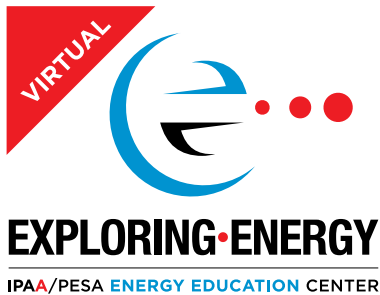
► High School Exploring Energy Program

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.

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

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SAMPLE PROJECTS

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SKILLS REQUIRED

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Science

Writing

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STARTING TODAY

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

CLASSES TO TAKE

- Geology
- Chemistry
- Statistics

DOWN THE ROAD

Volunteer at a local organization or nature center that studies the land in your area.

You Can Make a Difference

► 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



Since 2006, the IPAA/PESA Energy Education Center has inspired students in enhanced STEM curriculum, preparing the *next generation* for successful careers in the energy industry.

► 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



Barry Russell
President & CEO
IPAA



Galen Cobb
Vice President,
Industry Relations
Halliburton
PESA Exec. Comm.



Bill White
Former Mayor
of Houston;
Chairman
Lazard Houston



Annell Bay
Board Director
Apache Corporation



Leslie Beyer
President, Petroleum
Equipment &
Services Association



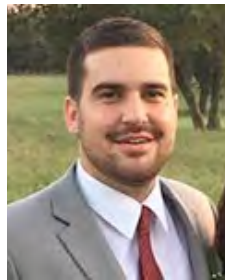
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Senior Reservoir
Engineering Planner
Noble Energy



Earl Childress
Senior Vice
President Business
Development
Oceaneering



Aaron Cobb
Vice President
Commercial & Trading
ExxonMobil Fuels &
Lubricants Company



Zac Creach
Sales Executive,
Americas
Rigzone



Alicia Dodge
Senior Land Advisor
Walter Oil & Gas
Corporation



Patricia Edwards
Senior Vice President
& Chief Human
Resources Officer
EOG Resources



Jim Eisterhold
Retired
Newfield Exploration



Dr. Delesa Franklin
School Support Officer
Houston Independent
School District



Erica Frederick
Reservoir Manager
Southwestern Energy



James Geary
Manager, Exploration
US GOM
Total E&P



Harris Ghozali
Managing Director
Lazard



Barry Glickman
President-Surface
TechnipFMC



**Paula McCann
Harris**
Retired
Schlumberger



Steven Hinchman
Chairman, IPAA
President & CEO
Scala Energy



Kelsey Hulett
Director
Sales Operations
NOV Rig Systems



Bernadette Johnson
Vice President
Strategic Analytics
Enverus



Joy Jones
American Association
of Blacks in Energy;
Internal Controls
Specialist
EOG Resources



Stephen M. Jones
Co-Chairman
EnerVest



**Dr. Ramanan
Krishnamoorti**
Chief Energy Officer
University of Houston

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Engagement, Marathon
Oil Company



Wesley Scott
Retired
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Outreach Committee,
Houston Geological
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INTERNAL REVENUE SERVICE
DISTRICT DIRECTOR
P. O. BOX 2508
CINCINNATI, OH 45201

DEPARTMENT OF THE TREASURY

Date: JUL 15 1998

IPAA EDUCATIONAL FOUNDATION
1101 16TH ST
WASHINGTON, DC 20036-4803

Employer Identification Number:
52-1849282
DLN:
17053101727028
Contact Person:
D. A. DOWNING
Contact Telephone Number:
(513) 241-5199
Our Letter Dated:
December 1993
Addendum Applies:
Yes

Dear Applicant:

This modifies our letter of the above date in which we stated that you would be treated as an organization that is not a private foundation until the expiration of your advance ruling period.

Your exempt status under section 501(a) of the Internal Revenue Code as an organization described in section 501(c)(3) is still in effect. Based on the information you submitted, we have determined that you are not a private foundation within the meaning of section 509(a) of the Code because you are an organization of the type described in section 509(a)(1) and 170(b)(1)(A)(vi).

Grantors and contributors may rely on this determination unless the Internal Revenue Service publishes notice to the contrary. However, if you lose your section 509(a)(1) status, a grantor or contributor may not rely on this determination if he or she was in part responsible for, or was aware of, the act or failure to act, or the substantial or material change on the part of the organization that resulted in your loss of such status, or if he or she acquired knowledge that the Internal Revenue Service had given notice that you would no longer be classified as a section 509(a)(1) organization.

If we have indicated in the heading of this letter that an addendum applies, the addendum enclosed is an integral part of this letter.

Because this letter could help resolve any questions about your private foundation status, please keep it in your permanent records.

If you have any questions, please contact the person whose name and telephone number are shown above.

Sincerely yours,



District Director

Enclosure:
Addendum