SOOGA ANNUAL FALL TRADE SHOW
SEPTEMBER 26 17, 2019

EDUCATION AND PUBLIC OUTREACH UPDATE

Rhonda Reda, Executive Director
Ohio Oil and Gas Energy Education Program
Raffle Drawing
The Sept. 16 Dispatch article “Fracking liquid contains what, nonprofit asks,” stated that emergency responders are denied important oil and gas chemical disclosure information.

As a fire chief and the lead instructor of Ohio’s oil and gas emergency response training program, I can verify that nothing could be further from the truth. Assertions that our firefighters lack the knowledge and expertise to address these emergencies are both false and disrespectful to these brave men and women who work hard to keep our communities safe.

State and federal laws require extensive disclosure of chemical compounds at all businesses, as well as those materials shipped by car, truck, rail or pipeline. These laws apply to oil and gas operations, too, and always have. Firefighters are trained to cross-reference chemical identification numbers on containers and placards with the U.S. Department of Transportation Emergency Response Guidebook to determine the best course of action. In addition, all businesses must maintain safety data sheets on a variety of materials.

In collaboration with safety experts from the fire service industry and regulatory agencies, the Ohio Oil and Gas Energy Education Program has trained nearly 1,600 firefighters in Ohio on oil and gas emergency safety protocols.

Proper firefighter training is being taught in Ohio, and as a result, our communities and our fire departments are better for it.

Chief Brent Gates, New Concord Fire Department
Firefighter/ Emergency Response Training
Upcoming Classes
October 5 – 6 & November 2 – 3, 2019

- 1,600 Firefighters
- 684 Fire Departments
- 60 Ohio Counties
- 7 Other States
STOP KILLING ALIGATORS TO MAKE GATORAID
Green “New” Deal
Pepper ...
And Salt
THE WALL STREET JOURNAL

September 24, 2019

“Pollution? Noise?
Better than whale oil.”
Research:
Public Opinion Surveys, Poling and Focus Groups
Perceptions of the Natural Gas and Oil Industry

This research survey explores perceptions of the Natural Gas and Oil Industry among Ohio voters throughout the state (not just in the oil and gas producing counties).

Conducted by Saperstein Associates and commissioned by the Ohio Oil and Gas Energy Education Program.
<table>
<thead>
<tr>
<th>Region</th>
<th>Actual*</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southeast</td>
<td>3%</td>
<td>3%</td>
</tr>
<tr>
<td>Most active oil and gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>producing counties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast</td>
<td>35%</td>
<td>35%</td>
</tr>
<tr>
<td>Other oil and gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>producing counties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central</td>
<td>17%</td>
<td>17%</td>
</tr>
<tr>
<td>Public opinion counties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>38%</td>
<td>38%</td>
</tr>
<tr>
<td>Counties with little or no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>oil and gas production</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Central</td>
<td>7%</td>
<td>7%</td>
</tr>
</tbody>
</table>

*Source: US Census Bureau

**Number of active wells.
The interview began with the following open-ended question:

“When you see the phrase ‘oil and natural gas industry,’ who or what comes to mind?”

The most common responses were:
General Impressions
At least eight out of ten voters* agree that Ohio’s oil and natural gas industry:

- Creates jobs;
- Hires local workers;
- Eases poverty;
- Saves consumers money;
- Drives Ohio’s manufacturing industry; and
- Provides local workers with education and training.

*Among voters with an opinion.
At least two out of three voters* recognize that Ohio’s natural gas and oil industry:

- Helps protect our national security;
- Gives back to local communities through charitable donations; and
- Supports road improvements.

*Among voters with an opinion.
Overall Impressions
Only one voter in four believes that the U.S. could eliminate the use of fossil fuels by 2030.
Six out of ten voters have positive impressions of Ohio’s oil and natural gas industry, overall. One out of five has no impressions.

Q4: What is your impression of Ohio’s oil and natural gas industry, overall?
The Environment
Most also agree that the industry’s impact on Ohio’s environment could be harmful, especially to the state’s air and water quality.

Fewer voters, but still a significant number, believe that Ohio’s oil and natural gas industry causes human-induced climate change and that drilling causes earthquakes.

Despite these perceptions, more than half the voters recognize that Ohio’s oil and natural gas industry is safe and believes that it makes a strong effort to protect the environment. They agree, as well, that Ohio would benefit from additional natural gas pipelines.
Four facts that had a positive impact on impressions* of Ohio’s natural gas and oil industry among seven out of ten voters:

1. The industry employs nearly 200,000 Ohio workers.

2. Over the past ten years, increased natural gas production has saved consumers more than a trillion dollars.

3. More than 6,000 household products are refined and processed from oil and natural gas; and

4. The “Shale Crescent Region (OH, PA and WV)” ranks third in the world in natural gas production behind the entire U.S. and Russia.

*Among voters with an opinion.
Changing Impressions
Most voters* have positive impressions of oil and natural gas, and at least half consider it:

- Reliable;
- Safe;
- Abundant; and
- Environmentally friendly.

Impressions of natural gas were more positive than are those of oil.

*Among voters with an opinion.
Mineral Rights
Few voters acknowledge owning mineral rights or claim to know the difference between private landowner mineral rights and government mineral rights.

Among voters with an opinion, at least eight out of ten agree, many strongly, that profit from mineral rights should be allowed on private and public land.

Nearly half the voters also agree* that oil and natural gas development should be permitted on state and federal property.

*Among voters with an opinion.
Products Made From Natural Gas and Oil
Most voters are not aware that natural gas and oil are essential components of numerous everyday products.
MUST DO MORE EDUCATION ON:
How Natural Gas and Oil is used in their Homes!
MUST DO MORE EDUCATION ON:
How Natural Gas is used to Cook their Food
and Heat their Water!
MUST DO MORE EDUCATION ON:
How Natural Gas and Oil makes their Communities Safe!
MUST DO MORE EDUCATION ON:
How Natural Gas and Oil is used in their Everyday Activities!
MUST DO MORE EDUCATION ON:
How they use Natural Gas and Oil for Food!
MUST DO MORE EDUCATION ON:
How Natural Gas and Oil Makes Them Stay Healthy and Feel Better!
MUST DO MORE EDUCATION ON:
How Natural Gas and Crude Oil is Needed for ALL forms of Transportation!
Additional Research: Poling/ Focus Groups Why/ Where/ When?
“PETRO PRO”
VOLUNTEER FORM

VOLUNTEER OPPORTUNITIES
☐ Guest Speaker ☐ Mentorship ☐ Job Shadowing Host ☐ Other _______________________________

CONTACT INFORMATION
Name: ______________________________________
Business / School / Organization: ________________________________
Phone: __________________________ Email: _______________________
Address: _______________________________________________________________________
City: ____________________________ State: ___________ Zip: ________________
County: _______________________________________________________________________
Grade / Subject Taught (if applicable): ____________________________________________

PREFERENCES
Preferred Location(s) (county): ______________________________________________________
Preferred Subject(s) (i.e. general oil and gas topics, careers, engineering, geology, etc...): __________________
Preferred Audience(s): ☐ K-12 Students ☐ Higher Education ☐ Civic Groups ☐ Other ________________
Additional Preferences/ Comments: __________________________________________________

PLEASE RETURN THIS FORM TO:
Ohio Oil and Gas Energy Education Program
P.O. Box 187, Granville, Ohio 43023 I (740) 587-0410
info@oogeep.org I www.oogeep.org
OHIO COLLEGE, UNIVERSITY, TECHNICAL & TRADE SCHOOL STUDENT ENERGY AWARENESS MONTH VIDEO CONTEST!

CASH PRIZES

- Grand Prize (1) $1,000
- Gold Prizes (2) $500
- Silver Prizes (4) $250
- Bronze Prizes (4) $100
- Honorable Mentions (2) $25

VIDEO CONTEST DETAILS & REQUIREMENTS:

- Create a 2-3 minute video that highlights how everyday tasks and events can, or can not, be accomplished using petroleum-based products!
  - Topics can include any of the following, but we encourage you to come up with your own ideas!
    - Attending school (getting ready, getting to school, supplies, etc.), transportation, games/ sports, vacation, technology, cooking/ baking, etc.
  - Be creative! Videos can be of any style; for example, documentary, game show, comedy act, theatre performance, etc.,
  - Judging will be based on creativity and content.
- Videos are only accepted October 1 through October 31, 2019.
  - Upload video to jumpshare.com/oogeepep or email to info@oogeepep.org.
  - Fill out the form at the bottom of this page and send with video submission.
- All entries are subject to being shared on various electronic and non-electronic outlets.

OHIO K-12 SCHOOL/ CLASSROOM ENERGY AWARENESS MONTH VIDEO CONTEST!

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Raffle Drawing:

Some “Frac Fuel – for when you need to wake the “frac” up”
Thank you for your Support!