



Delta Section

NEWSLETTER



Volume 33 No. 8

April 2017

SPE SOCIAL NETWORKING RECEPTION

Wednesday
April 19, 2017
5:30 pm - 7:00 pm

LOCATION:

Astor Crowne Plaza Hotel
739 Canal Street
New Orleans, Louisiana

For questions or info, please contact:

Michael Waguespack

Michael.Waguespack@wsnelson.com

SPE Delta Section will host a networking reception in conjunction with the SPE Health Safety Security Environment & Social Responsibility(HSSE-SR) Conference - North America. Reception will include short presentations by the SPE Delta chairperson and by SPE International concerning SPE's HSSE-SR activities. This is a great opportunity for networking among conference attendees, SPE Delta Section members, and HSSE-SR oil and gas professionals in south Louisiana. Please register through either the conference website or the SPE Delta Section website. There is no registration fee.

REGISTER ONLINE:

<http://connect.spe.org/delta/home>



21st Annual Gulf of Mexico

Deepwater

Technical Symposium

AUGUST 21-23, 2017
www.deepwaternola.org

CALL FOR ABSTRACTS

The annual Symposium is a joint effort between the American Association of Drilling Engineers New Orleans Chapter (AADE), Society of Petroleum Engineers Delta Section (SPE), and New Orleans Geological Society (NOGS). The 21st Annual Gulf of Mexico Deepwater Technical Symposium program committee invites you to share your recent experiences and findings applicable to deepwater E&P operations with your industry peers.

Last year's Symposium attracted over 300 industry professionals from across the spectrum of technical disciplines that enable deepwater oil and gas development including employees of oil & gas companies, service providers, government agencies, and academia as well as students from universities across the gulf coast area. The overall goal of the Symposium is to share knowledge, best practices, new technologies, and improvements to existing technologies with a focus on case studies.

In addition to technical sessions throughout the Symposium, we host exciting keynote speakers for the Tuesday and Wednesday luncheon sessions, we invite organizations and companies to present at a dedicated exhibit hall, and organize a student poster session.

If you would like to present at the upcoming Symposium event, submit an abstract of your presentation to the respective session chair by Friday, April 14th, 2017. The Symposium presents a unique opportunity to share and learn from each other freely since presenters have the option to decline publication of presentation materials.

GREAT NEWS FOR FUTURE ENGINEERS!

The LA Board of Elementary & Secondary Education (BESE) is changing the grade level expectations (GLE) to include engineering. Until present, engineering was not included within GLE requirements.

ASCE – Oil & Gas Session at Annual Conference

American Society of Civil Engineers (ASCE) will be holding their annual conference in New Orleans this year on October 8-11. They are planning a session of tracks related to the history of oil and gas in the New Orleans and Gulf of Mexico area. This will be a new topic for the society. As plans progress, there should be opportunity for societies and individual volunteers to help out.



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2016-2017 SPE Delta Section Officers and Board of Directors

Role	Name	Company	Phone	Email
Section Chairperson	Daniel Durey	Shell	504.425.7762	daniel.durey@shell.com
Section Past-Chairperson	Angie Gobert	BSEE	504.736.2876	Angie.Gobert@bsee.gov
Program Chairperson 1st vice chair	Howard Duhon	Gate	281.206.8357	hduhon@gateinc.com
Membership Chairperson 2nd vice chair	Angie Gobert	BSEE	504.736.2876	Angie.Gobert@bsee.gov
Secretary	Caitlin Papso	Shell	504.491.9538	Caitlin.Papso@shell.com
Treasurer	Jaime Villatoro	BOEM	281.380.0518	i_villa_07@yahoo.com
Young Professional Chairperson	Lauren Woitha	BOEM	985.773.6679	Lauren.Woitha@BOEM.gov
Sec Dir/Student Chapter Liaison (LSU/NSU)	Dominick Sparacino	Chevron	985.773.7382	dominicksparacino@chevron.com
Northshore Coordinator	Evan Graybill	Chevron		egdo@chevron.com
Northshore Coordinator	Ryan Smith	Chevron		ryan.a.smith@chevron.com
Internet Chairperson	Forna Diphicyl	BSEE	504.736.2659	forna.diphicyl@bsee.gov
Continuing Education Chairperson	Dan Alonso	Chevron		dalonso@chevron.com
Scholarship /Career Guidance	Sue Barth	Chevron	985.773.7542	suebarth@chevron.com
Newsletter Contents and Advertising	Vincent Liaw	Baker Hughes	985.590.6449	Vincent.Liaw@bakerhughes.com
Newsletter Contents and Advertising	Nick Judice	Hunt Guillot & Associates	225.926.1665	njudice@hga-llc.com
HSE	Michael Waguespack	Waldemar S. Nelson	504.593.5693	Michael.Waguespack@wsnelson.com
Section Director 2015/2017	Matt Wandstrat	LLOG Exploration	985.801.4300	mattw@llog.com
Section Director 2015/2017	Phil Moses	Consultant	504.616.6511	pamoses1@uno.edu
Section Director 2015/2017	Walter Navoy	Schlumberger	504.592.5402	navoy1@slb.com
Section Director 2015/2017	Jon Wood	LLOG Exploration	985.801.4300	jon.wood@llog.com
Section Director 2016/2018	Henry Shurlds	Onesource Prof Search	985.778.2902	henry@onesourcepros.com
Section Director 2016/2018	Jan Catalano	ORX	504.581.1806	jan@orx.com
Section Director 2016/2018	Tony Richards	Upstream Exploration	504.836.7328	southcascade@cox.net
Section Director 2016/2018	Rivers Fike	Shell	504.214.5329	Rivers.Fike@shell.com
ONE VOICE Chairperson	Jan Catalano	ORX	504.581.1806	jan@orx.com
ONE VOICE Asst	Charlie Mayne	W&T Offshore	504.210.8172	cmayne@wtffshore.com
Deepwater Liason (Aug 2017)	Sue Barth	Chevron	985.773.7542	suebarth@chevron.com
Deepwater Advisor	Matt Wandstrat	LLOG Exploration	985.801.4300	mattw@llog.com
Sr. Advisor	Allen Porter	Consultant	985.276.4019	aporter521@gmail.com
Golf Tournament Co-Chairperson	Matt Wandstrat	LLOG Exploration	985.801.4300	mattw@llog.com
Golf Tournament Co-Chairperson	Jerry Simms	LLOG Exploration	985.801.4300	jerrys@llog.com
Active Past Chairs:	Jan Catalano	ORX	504.581.1806	jan@orx.com
	Matt Wandstrat	LLOG Exploration	985.801.4300	mattw@llog.com
	Tony Richards	Upstream Exploration	504.836.7328	southcascade@cox.net
	Charlie Mayne	W&T Offshore	504.210.8172	cmayne@wtffshore.com
	Phil Moses	Consultant	504.616.6511	pamoses1@uno.edu

SPE: ON THE HORIZON

SPE Events:

- Apr. 18-20 **SPEI Annual HSE Event • New Orleans, LA**
- Apr. 19 **SPE Delta Social at SPE North America HSSE-SR Conference**
 5:30-7:00 pm • Astor Crown Plaza • Canal Street, New Orleans, Louisiana
 Registration for the event is on the SPE Delta website, <http://connect.spe.org/delta/home>
- May 9..... **SPE General Meeting, Distinguished Lecturer • New Orleans, LA**
- May 11..... **SPE Delta Chapter Awards Banquet**
 More details will be provided within the next two weeks • <http://connect.spe.org/delta/home>

Other Events:

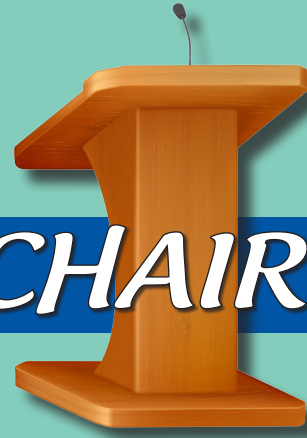
- Apr. 9 **PIPE • Family Fun Eat & Run • City Park, New Orleans, LA**
 5k Run/Walk and Kids 1/2 Mile Fun Run/Walk.
 For more information and to register: www.NOLArunning.com and see this newsletter issue.
- Apr. 15 **SuperScience Saturday • Louisiana Children's Museum, New Orleans, LA**
 For more information or to volunteer: contact Tom Bergeon at tom.bergeon@upstreamexp.com
- May 17 **Baby Cakes STEM Day • Shrine on Airline, Zephyr Field, Metairie, LA**
 Exhibit Hours: 9 am to 2:30 pm • Baby Cake Game hours: First pitch: 11 am to 3 pm

SPE's NEWSLETTER HAS GONE DIGITAL!

Check our website <http://connect.spe.org/delta/home> or your email for the latest edition.



from THE CHAIR...



Hello to the membership.

I want to take a moment and tell you how pleased I am with the section board members. They continue to deliver high quality programs, activities, volunteer opportunities, community support, networking events, fundraising, college scholarships, and a degree of healthy fun, all of this while still working full time at their regular jobs. Their service is commendable, admirable and I am inspired by their efforts.

Our upcoming events for April and May include the Family Fun Eat & Run, HSSE Social Hour, the annual Awards Banquet, and two general meetings/luncheons. Be sure to review the newsletter for details and dates of these events.

The 2017 SPE Delta Section Golf Tournament at Carter Plantation was a huge success. Our sincerest thanks to the team sponsors, financial donators, hole sponsors, service providers who gave of their time and resources to host tents and cook wagons on the course, student volunteers, and committee members who pulled this event together. The weather was great, even with the high winds, and everyone I was able to meet had a great time. The section was able to donate funds to seven different engineering college departments. Thanks again for supporting this event and for participating in the fun.

The Family Fun Eat & Run is scheduled for April 9th. Once again this PIPE (Petroleum Industry

Promoting Education) event benefits the three area Children's Museums. This will be held at City Park in New Orleans and will include a 5K Run/Walk and a Kids Dash Run/Walk. Please preview the advertisement in this newsletter for registration details.

On April 19th the Delta Section is sponsoring an evening social hour following the SPE HSSE-DR Conference. The intent is to provide an event for all members and to also focus on our HSSE members. This social should provide some great networking opportunities as well as some good food! Please look for more information in this newsletter regarding registration and details.

A reminder to all to keep your membership current and to encourage your colleagues who are not currently members to renew or join. It is your involvement and dues that enable the Delta Section to continue to deliver support to the local community and the industry. I also encourage you to sign up and attend the monthly technical luncheons. Come out, network with your industry colleagues, have a good lunch and expand your knowledge

Cheers,

Daniel A. Durey

Your 2016-2017 SPE Delta Section Chair

SPE-Delta Membership Report

Submitted by Angie Gobert (Membership Chairperson)

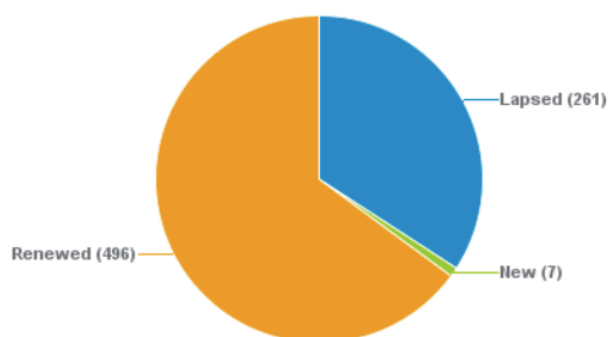
As of April 2017



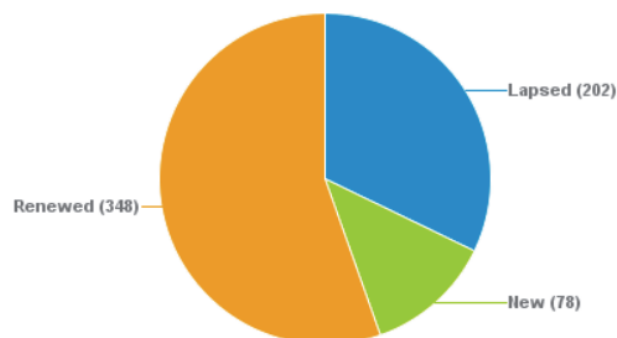
Delta Section

Total Full Members	764
New Members	7
Unpaid Members	261
Total Student Members	628

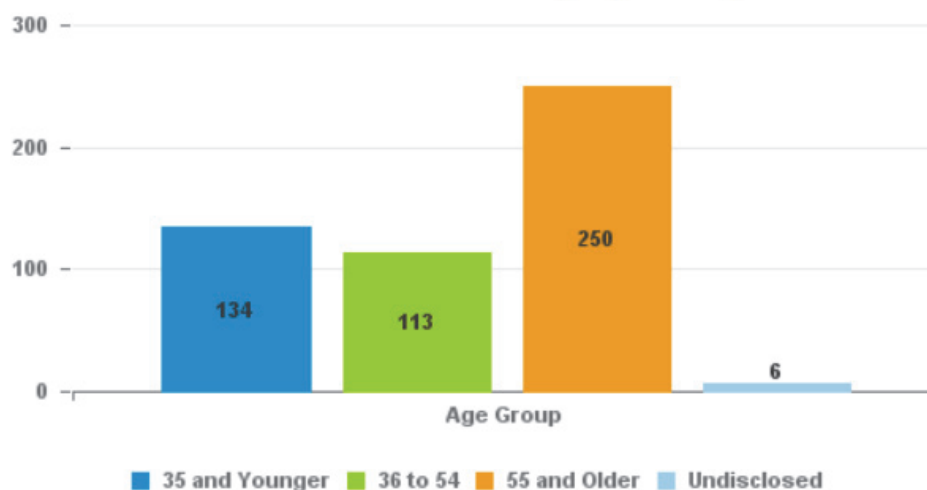
Professional Membership



Student Membership



Professional Members by Age Group



60% Pass 2016 Petroleum PE Exam

NCEES and the State Engineering Boards released their 2016 Professional Engineering Exam results. Nationwide, the Petroleum Engineering Exam recorded a 60% pass rate. The Petroleum first time takers passed at a 66% rate. The pass rates for a few other engineering disciplines were:

Chemical	64%	Agricultural	71%
Civil	62%	Fire Protection	55%
Electrical	58%	Industrial	67%
Environmental	54%	Metallurgical	65%
Mechanical	69%	Mining	58%
Nuclear	71%	Control Systems	73%

The Petroleum pass rates in 2016 for a few states:

Alaska (4/5)	80%	Louisiana (9/15)	60%
California (0/3)	0%	Oklahoma (14/17)	82%
Colorado (4/5)	80%	Texas (92/158)	58%

What are the requirements to take the Petroleum PE Exam? Today, Louisiana requires that you have:

1. An engineering, math or science degree.
2. Passed the Fundamentals, or FE Exam.
3. At least four years of professional experience.

Interested? Contact the Louisiana State Engineering Board at (225) 925-6291 for application forms. State web sites are also available at: www.ncees.org/licensure/licensing_boards. The Louisiana application deadline to take this years PE Exam is June 1, 2017. This year's test will be given on Friday, October 27, 2017

PROFESSIONAL REGISTRATION REVIEW COURSE FOR PETROLEUM ENGINEERING

COURSE DESCRIPTION:

The course covers most topics that are found on the State Board Petroleum Engineering Professional Examination

WHO SHOULD ATTEND:

Engineers who are planning on taking the PE Examination in Petroleum Engineering this fall.

NEW ORLEANS COURSE

8:00 AM - 5:00 PM • Monday through Friday

August 14 – 18, 2017

For More Information: 405-822-6761 • E Mail: bingwines@cox.net
Web Site: www.winrockengineering.com

WINROCK ENGINEERING, INC. • P. O. BOX 42296 • OKLAHOMA CITY, OK 73123

SPE DELTA SECTION GOLF TOURNAMENT

On Friday March 24th we met at Carter Plantation in Springfield to celebrate our annual SPE Delta Section Golf Tournament. It was another successful outing by all accounts. Fund raising starts in January, signing up sponsors with the goal of supporting the seven university programs which include Louisiana State University, Nicholls State University, University of New Orleans, University of Louisiana-Lafayette, Louisiana Tech University, Mississippi State University, and Florida State University / Florida A&M University. This year our efforts raised over \$43,000 and the schools each received a check for \$3,500. This money is donated to the departments covers a wide range of needs all supporting Energy and Engineering Education.

The golf tournament is organized by a talented group of individuals whose efforts are evident in their continued results. Please help me thank and congratulate the following committee members:

Jerry Simms	Matt Wandstrat	Lydia North
Jenny Weekley	Doug MacEachern	Lauren Polk
Alden Sonnier	Louis Schneider	Dominick Sparacino
Ben Gary	Justin Curtice	

Once you have a great committee in place the next key to success is a strong group of sponsors. This year 53 different companies helped us toward our goal, many have continued that sponsorship over the years, even though recently being a tough environment to continue to do so. We could not have done it without the support of the following companies:

Champions

Diversified Well Logging • Oasis Petroleum • Technip • FMC

Ace

LLOG Exploration • National Oilwell • Varco

Eagle

Cox Operating • Exmar • RWO

Birdie

Blake International • Cetco • GeoMark • Impact Selector • NALCO Champion • Perma-Pipe
Pinnacle Engineering • Sooner Pipe • Tubular Solutions • TETRA • Seatrax

Par

A Pro Industries • Blackhawk • Bristow • Collarini Energy Experts
Crescent Drilling and Production • Enven • Hunting • Nacher • Newpark • OTC
Onesource • ORX • Raymond James Pastor Group
Seminole Services • Subsea 7 • Wellbore Fishing and Rental Tools • Devin NOV

Cooking

Guice Offshore • Hudson Services • Offshore Energy Services

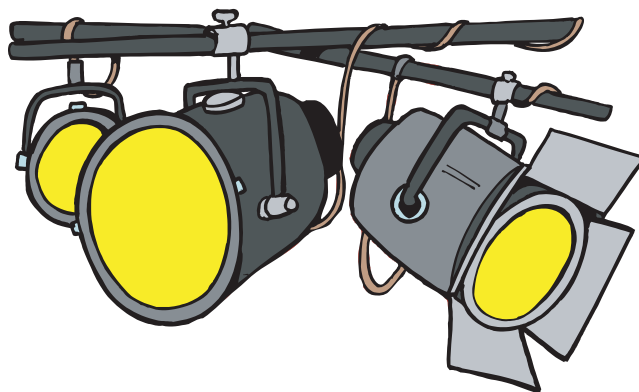
Playing

Baker Hughes • Clariant • Danos • EDG • Enventure • H&P • Halliburton • Interwell
MMR Group • NNW • Rig Chem • SGS Labs





Delta Section



Spotlight on Young Professionals

Do you know a young professional who deserves to be put in the Spotlight? If so, suggest them (or yourself) to be featured in the “Spotlight on Young Professionals.” Help us identify worthy young professionals by submitting your story today for a chance to be featured in The Way Ahead™.

Learn more at <http://www.spe.org/members/yps.php>



Volunteering Looks Good on You.

Engage Support Contribute

Become a Mentor through SPE's eMentoring Program

eMentoring gives SPE members a way to contribute to the E&P industry by sharing industry insights and practical career advice with young professionals, or by helping university students with academic and career direction. Young professionals also have the unique opportunity to serve as mentors to students.

Join the program today by going to <http://www.spe.org/ementoring/>

Dues Waiver

SPE offers a dues waiver for renewing members who have lost their jobs due to the industry downturn and other circumstances. To qualify, submit a written request by either postal mail or email to service@spe.org

Out of Work?

Check out the Members in Transition Toolkit at <http://www.spe.org/members/transition/>. Learn how to optimize your job search, develop your network, enhance your skills, and thrive in a downturn.

CULTURE MATTERS

RISK SOCIETY — THE DISTRIBUTION OF BADS

by Howard Duhon, P.E.

This article first appeared as the Culture Matters column in the Dec. 2013 issue of *Oil and Gas Facilities Magazine*.

<https://www.spe.org/en/ogf/ogf-article-detail/?art=224>

For this month's Culture Matters column I have elected to do a book review on *Risk Society*¹. *Risk Society* was written by Ulrich Beck (1986 in German, 1992 in English).



ULRICH BECK, Author

It is considered one of the most influential books from the 20th century. Ulrich argues that we are in the midst of a major cultural change in Western society. Modern society has become a risk society in the sense that it is increasing occupied with managing risks that it has produced. His insights help to explain two major changes of importance to the oil industry – the increasing safety consciousness that has made our operations safer and

the decreasing risk tolerance that has resulted in increasing resistance to development.

The last major cultural change occurred in the 17th century when the enlightenment ushered in the industrial age and society changed from a feudal society to an industrial society.

In the feudal society, life was organized around³

- church,
- extended family and
- village community.

Risks were local. Risks that were not understood were managed by religious belief and magic. The community was more important than the individual.

Major changes to society accompanied the enlightenment. The basis of the industrial society has been the manufacture and distribution of goods. It has been enabled by science and the emergence of corporations and nations. This shift in allegiance from village community to corporation and state empowered the individual to forge his (and eventually her) own success. The influence of church declined. Extended families disappeared; replaced by nuclear family units.

Initially, it seemed as though science would solve all the vexing problems of mankind – disease, poverty, hunger, perhaps even conflict and war.

But science failed to eliminate risk; indeed the industrial society has created risks far worse than those faced in the feudal society. Certainly major strides have been made against diseases of all types. But diseases still afflict us; and the very medicines that cure a disease also serve to incubate more drug resistant pathogens. Science has created the ability to grow far more food per person and per acre. But this has not cured hunger. It has led to an exponential rise in the world's population. Many people are much better fed today (and increasingly overweight), but many others are left hungry.

And the industrial society has wrought hazards as side-effects, many wholly unexpected. The industries that create the 'goods' we enjoy also spew pollution, create horrific weapons of mass destruction, and enable the rapid spread of pathogens and divisive communication. Chlorofluorocarbons once threatened the ozone layer. Greenhouse gases now threaten catastrophic climate change. In the early days of atomic energy experts assured us that the risk of a meltdown was one in a million years – in the last 40 years we have had two.

Faith in science, in corporations and in government all decreased in the waning years of the 20th century as people in developed countries became better educated and as the risks wrought by industry became better understood and more widely communicated. This questioning of authority is ushering in the risk society. Whereas the industrial society was based on the distribution of 'goods', the risk society is characterized as the distribution of 'bads' or risks.

There is a tremendous irony here;

- Science promised to eliminate risks
- By its very success, science has created other serious risks that were unforeseen
- These risks are obvious to us mainly because science can identify and define them
- Though faith in science has been weakened, science is generally seen as the solution

The industrial society was created by science and the power of science is its ability to critically examine nature. The failure of science that is now causing a transition to the risk society has been its failure to critically examine itself. Science largely failed to anticipate the long-term effects of its successes and scientists have frequently been complicit with industry in denying risks when they are first discovered. This is largely changed now that a concerned public (a risk society) has driven science to critical self-examination.

The logic of wealth production that characterized the industrial age was explicitly based on the subordination of nature for the good of man. But nature does not possess unlimited potential. This basis was not significantly questioned until we became so successful that we began

to reach some of the limits of what nature can provide. It is now clear that future growth must be accomplished in harmony with nature (sustainability).

Reward potential has always been a function of risk. But in the feudal society the risks were largely personal or limited to the local community. Now the risks are

- de-localized (extend to all of society),
- incalculable, and
- non-compensable.

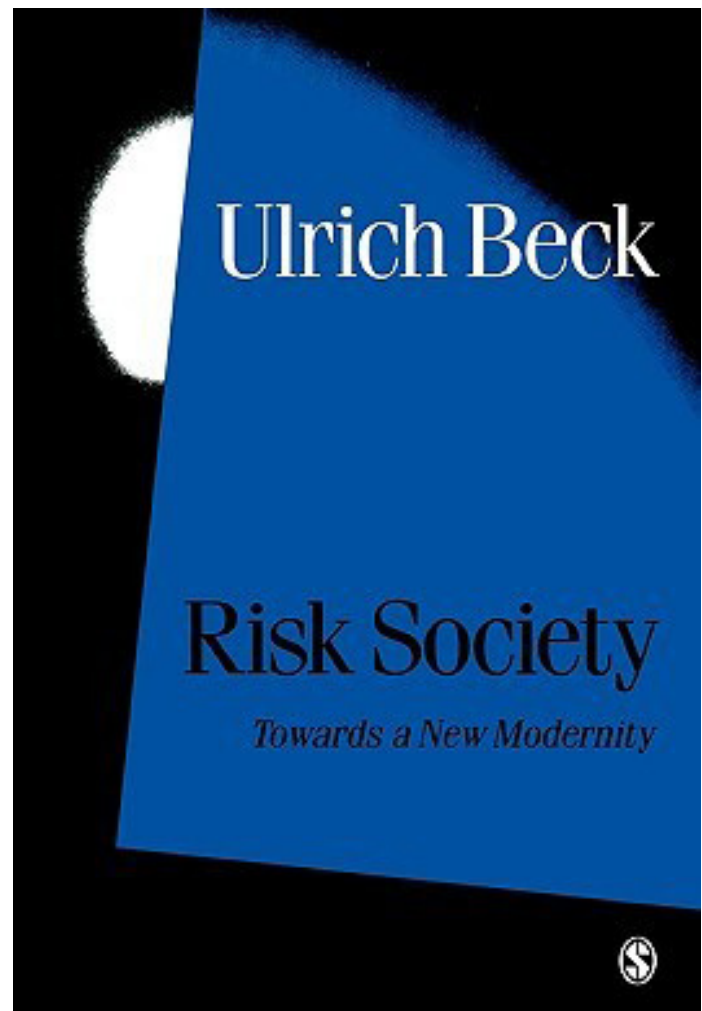
An atomic energy plant potentially enriches a small group of investors. But the risk is largely unknowable (cannot be calculated), is shared by many, and in the event of a meltdown, the afflicted cannot be adequately compensated for their loss.

An important feature of the risks that dominate social discourse today is their invisibility. We cannot directly observe radioactivity, pollutants, food-borne pathogens, greenhouse gases, etc. These risks are identified and communicated by technical professionals. But the statement of these hazards is never reducible to mere statements of fact. Consider the finding of lead contamination in children: we can state the results of studies in scientific terms (average concentration and standard deviations for various populations). But we cannot state with any certainty that x ppm (parts per million) is too much and less than x is OK.

The question of acceptance arises. How do we wish to live? Which 'bads' are we willing to accept in order to enjoy the 'goods'? On the question of lead-based paint, we have decided to live without it. We have not (at least not yet) decided to radically decrease our CO₂ production, though many now argue for this path.

There will always be advocates on both sides of a risk issue. Both sides of the argument can state 'facts'; indeed risk arguments are typically between two groups of scientists each with their fact-sheets. But the question of acceptance is a values-based question rather than a fact-based. And the arguments are usually complicated by 'if not this, then what?' arguments. Proponents of nuclear energy, for instance, may accept the risk of their technology while they point out the climate change impact of other technologies.

The hazards faced by society fall on all of us including the many who have no control over the creation of these risks. The issue of trust and credibility is large. For about three centuries, people put a great deal of faith in science, corporations and government. But that faith has waned. Industrial enterprises now spend more and more of their capital in attempts to build or repair credibility and trust in a scared and skeptical public. There is unfortunately a common pattern of deception in this communication. When risks are discovered by the public, industrial organizations will typically deny responsibility long past the point that



all unbiased observers are convinced otherwise (think of the tobacco industry and lung cancer, for instance). This pattern of denial further erodes trust.

Risk accentuates class differences. Wealth accumulates at the top; risks at the bottom. Poverty attracts a disproportionate share of the risks. The wealthy can purchase at least a measure of protection from some of them. And the poor will also choose to accept additional risk when the choice is between accepting risk and obtaining resources. Need suppresses the perception of risks. As risk society develops, so does antagonism between those afflicted by risks and those who profit from them.

Though scientists have the pole position in identifying risks, risks are in fact 'defined' socially; they are defined via discourse between concerned groups. This occurs over a period of time starting either when citizens state a concern based on observations or when a concerned scientist states an opinion. This concern is initially denied by corporations and scientists in their employ. Concerned citizens may hire their own scientists to make their case. Since these are complex problems, not fully understood by anyone, the discussion can take unexpected turns. These socially generated risk definitions are never wholly dependent on their scientific rationality.

When a forest is dying, for instance, suspicion may initially fall upon biological causes perhaps driven by increased use of pesticides on nearby farms. Later specific pollutants from coal-fired power plants may be implicated. Some may argue that global climate change has affected the delicate balance of life in the local ecosystem. Different scientists will disagree.

Another Insight – Affect Heuristic

I want to note here an insight from psychology that is not explicitly included in Beck's book; the affect heuristic. The affect heuristic says simply, that if you have a positive opinion about a technology, then you will tend to over-estimate its benefits and tend to under-estimate its risks. Since you are reading this article you are probably an SPE member and likely have a high opinion of the oil and gas industry. The affect heuristic says that you will tend to under-estimate the risks from oil and gas development. Conversely, a person with a low opinion of the industry can be expected to over-estimate the risks (and hence to trust people who over-estimate and over-hype the risks)

Implications for the Oil Industry

The insights from Beck certainly comport with the major changes in safety culture in the industry over the past 20 to 30 years. And obviously his observations fit the pattern of increasing community resistance to development.

What is the take-away?

Scientists frequently view public concerns as irrational and may view the population at large as simply ignorant and only in need of education. This perception is wrong. Opinions are not based solely or even mainly on facts. Opinions are socially constructed and based on values and trust. Simple education cannot meaningfully change risks perceptions that have been generated socially and about which significant disagreement exists among scientists.

A reasonable analogy is Democrats vs. Republicans. Both parties have their 'facts' which they are all too eager to share. But the 'facts' rarely, if ever, convince anyone from the other party. Arguments about technology amount to competing fact sheets. It is not a matter of sharing facts, but of building trust.

Teddy Roosevelt famously noted "No one cares what you know until they know that you care."

References:

1. Ulrich Beck, 1992, *Risk Society, Towards a New Modernity*, Sage Publications
2. Ulrich Beck, 2006, *Living in the World Risk Society, Economy and Society*, Volume 35, Aug 2006 (available online)
3. Alan Roxburgh, A Summary of Ulrich Beck – Risk Society (available online) <http://tcs.ntu.ac.uk/books/titles/rs.html>

SAVE THE DATES:



Delta Section

2017 SPE AWARDS BANQUET MAY 11, 2017

More details will be provided within the next two weeks
<http://connect.spe.org/delta/home>



21st Annual Gulf of Mexico

Deepwater

Technical Symposium

AUGUST 21-23, 2017
www.deepwaternola.org

"Family Fun Eat & Run"

5K and 1/2 Mile Run/Walk
Sunday, April 9, 2017 ♦ City Park, New Orleans, La



DATE: Sunday, April 9, 2017

TIME:

- 7:00 am: Race Day Registration and packet pickup opens
- 8:30 am: Start of 5K Run/Walk
- 9:30 am: Start of 1/2 Mile Kids Fun Run/Walk

LOCATION:

City Park, New Orleans

- ♦ Site of the new Louisiana Children's Museum ▶
(Intersection of Henry Thomas Drive & Palm Drive)

PROCEEDS BENEFIT AREA CHILDREN'S MUSEUMS

**Support the Louisiana Children's Museum-New Orleans,
the Bayou Country Children's Museum in Thibodaux or the
Children's Museum of St. Tammany-Northshore.
Choose below to benefit one or all three Children's
Museums.**

ENTRY FEES: Checks Payable to: NORSI

ADULT (18 & OVER)

- \$30.00 by March 20th
- \$35.00 by April 4th & at pre-race day packet pickup
- \$40.00 Day of Race (Sunday, April 9th)

YOUTH: * Proof of age required at packet pickup

- \$10.00 Age 11 to 17
- Free: Age 10-under

HOW TO REGISTER:

Online link posted at www.NOLArunning.com

- **BY MAIL TO:** * Postmarked deadline March 29th
NORSI, P. O .Box 2348, Kenner, La 70063

PRE-REGISTER In Person (Available at the following locations)

**** Payable by check to: NORSI**

- Varsity Sports - New Orleans
- GNO Cyclery - New Orleans
- Louisiana Running & Walking, New Orleans & Metairie
- Elmwood Fitness Center, Harahan

Packet pickup: Date, Time, location (posted later on website)

T-SHIRTS:

Event T-Shirts given out on the day of race to pre-registered entrants first. All entrants registered day of race will receive t-shirt as supplies allow. In event of reorder, details will be announced and posted on event website. Please keep race number and t-shirt tab to claim your shirt.

AWARDS:

5K: 1st overall, 1st, 2nd Place age groups 10-under thru 75-over
1/2 Mile Kids Run/Walk: 1st overall, 1st, 2nd, 3rd place ages 6-under, 7-9, 10-12, 13-15
Medallions to all 1/2 mile youth division finishers.

POST RACE REFRESHMENTS ♦

For our inaugural year's race we had this and more !

Pork chops, jambalaya, BBQ Shrimp, White beans & Rice, Gumbo, Hot dogs, Hamburgers, Mini-Muffalettas, Ham Pistolettes, Roast Beef Pistolettes.

For adults only (21 -over) Beer, Margarita's, Bloody Mary's, Hard Lemonade, Kentwood Spring Water

For the Kid's: DJ with Karaoke, Bounce Houses, Lemonade, Sno Balls, Funnel Cakes, Toy Prizes and more.

RACE INFORMATION:

- ❖ **PRODUCED BY:** New Orleans Running Systems, Inc. and PIPE
- ❖ **WEBSITE:** www.NOLArunning.com
- ❖ **EMAIL:** `chucknorsi@cox.net
- ❖ **RACE DIRECTOR:** Chuck George
- ❖ **PHONE:** 504-884-7565

◀ **BENEFITING THREE (3) AREA CHILDREN'S MUSEUMS** ▶



For more information, [click here](#)

PLEASE READ the race details
on the website before filling
out and mailing this form.

"FAMILY FUN EAT & RUN"

5K & 1/2 Mile Run/Walk
Sunday, April 9, 2017 ♦ City Park, New Orleans, La

PLACE A CHECK MARK "✓" BY RACE ENTERED

☐

5K

☐

1 2 MILE

REGISTRATION FEES

BY March 20

March 21-April 4

RACEDAY (April 9)

ADULT (18 & OVER)

☐

\$30

☐

\$35

☐

\$40

FEE THRU RACEDAY – Youth

YOUTH (11 THRU 17)

☐

\$10

KIDS (10 & Under)

☐

FREE

CHECK PAYABLE TO:

NORSI

P. O. Box 2348

Kenner, La. 70063

All entry fees are non-refundable

Please Place checkmark (✓) in box by Charity (ies) to donate to:

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>



Louisiana Children's Museum, New Orleans



Bayou Country Children's Museum, Thibodaux



Children's Museum of St. Tammany-Northshore

***Split donation to all three Museums**

DONATION

\$

BIB/RACENUMBER

**AMOUNT
PAID:**

**PAYMENT
METHOD:**

INITIALS:

OFFICIAL USE ONLY !!!

◀ **CHIP-TIMED RACE** ▶ **PLEASE PRINT CLEARLY** ▶

LAST NAME:

FIRST NAME

MI

STREET ADDRESS / APARTMENT NUMBER

CITY

STATE

ZIPCODE

TELEPHONE NUMBER

DATE OF BIRTH

AGE

MALE

FEMALE

T-SHIRT SIZE: Sm Med Lg XL XXL **E-MAIL ADDRESS**

PAYMENT BY CREDIT CARD **VISA MC ACCOUNT NUMBER**

**EXPIRATION
DATE:**

CVV Code

**Printed Name
of Cardholder**

**Signature of
Cardholder**

I know that running a road race is a potentially hazardous activity. I should not enter and run unless I am medically able and properly trained. I agree to abide by any decision of a race official relative to my ability to safely complete the run. I assume all the risks associated with running in this event but not limited to fall, contact with other participants, the effects of weather, including high heat and /or humidity, traffic and other conditions of the road, all such risks being known and appreciated by me. Having read this waiver and knowing those facts and in consideration of your accepting my entry. I for myself and anyone else entitled to act on my behalf, waive and release New Orleans Running Systems, Inc., PIPE and all sponsors, their representatives and successors from all claims in liabilities of any kind arising out of my participation in the event. I grant permission to all of the foregoing to use any photographs, motion picture recordings or any other record of this event for any legitimate purpose.

SIGNATURE:

Date:

SIGNATURE:

Date:

Signature of Parent or Guardian required if entrant is under 18

APRIL.15.2017

11:00 am - 3:00 pm



SUPER SCIENCE SATURDAY

DINOSAURS, EARTHQUAKES & OIL

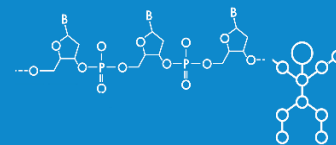


BROUGHT TO YOU BY:
The Louisiana Children's Museum
The New Orleans Geological Society
The Southeastern Geophysical Society

To volunteer, contact Tom Bergeon at tom.bergeon@upstreamexp.com



Core Element 2017 Summer STEM Camps



Junior STEM Camp June 19-23

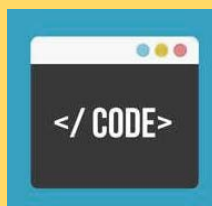
- Learn to build and program robots with WEDO® Robotics.
- Use LittleBits® color-coded electronic bits to learn about circuits, electronics and create inventions.



Students grades 3-5
UNO TRAC Center
\$350.00 per camper

Coding Camp June 26-30

- Learn to code by building and deploying your very own web games using popular web-based technologies: HTML, CSS, JavaScript, and create graphics with Canvas API.

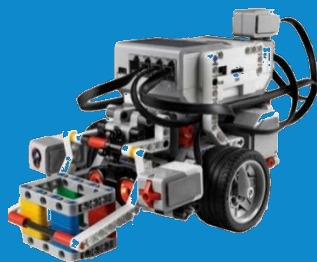


- No prior programming experience required.
- Games run in a browser on any platform!

Students grades 6-9
UNO TRAC Center
\$350.00 per camper

EV3 Robotics Camp July 17-21

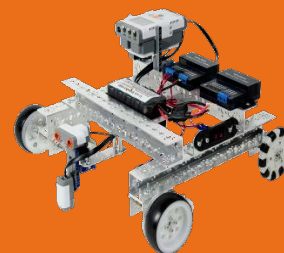
- Design, build, and program autonomous robots;
- Learn and apply engineering and scientific terminology;
- Use new and developed skills to complete tasks with the robot;
- Problem-solve individually and as a team;
- Learn about exciting STEM careers from local STEM professionals.



Students grades 4-8
UNO TRAC Center
\$350.00 per camper

Advanced Robotics with Tetrix Robots July 24-28

- Using Tetrix® robots to explore the next level of learning for Robotics.
- Build more complex robots using advanced features such as aircraft grade aluminum parts, powerful drive motors, customizable remote controls, and engineering design.
- Learn to program with JAVA.
- Great opportunity for those who are FTC members or who would like to start FTC teams.



Students grades 7-10
UNO TRAC Center
\$350.00 per camper

Thanks to our camp sponsors:



THE UNIVERSITY of
NEW ORLEANS

Each camp session is one week long, 9am-3pm each day.

Register at : <https://2017coreelementstemcamp.eventbrite.com>

Financial need scholarships available: <https://2017cecampscholarship.eventbrite.com>

Questions: andrea.walker@gnostem.org

www.core4kids.org



Core Element 2017 Summer STEM Institute Teacher Professional Development Workshops

Core Element Summer STEM workshops are no cost to teachers in the Greater New Orleans Region. Teachers from schools outside of the region may attend for a nominal charge (please email andrea.walker@gnostem.org for information). Participants must sign up for individual workshop sessions.

Register at: <https://ce2017steminstitute.eventbrite.com>

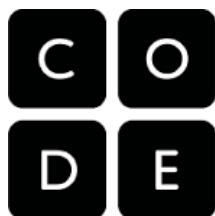
All workshops are 6 contact hours per day of training, 8:30-3:30 and will be held at UNO.

\$25 deposit (payable online at registration) is required to hold your place in each workshop. At your completion of each workshop, your deposit will be returned to you. Visit our website at www.core4kids.org for more descriptions of the workshop.

Introduction to Coding for K-5 Teachers

June 22, 2017

Vicky Jacobsen
Code.org



LIGO Presents: Physical Science and Inquiry Classroom Activities

June 29 AND 30, 2017

LIGO Staff



Intro to LEGO EV3 Robotics for Grades 4-8

July 6 and 7, 2017 (2 days)

Drs. Annette Oertling and Michelle Sanchez



Modeling Method of Instruction for Biology

July 10-21, 2017 (10 days)

30 Contact Hours
Julie Maimes, ASU



Ecosystem Education Grades K-5

July 10, 2017

Jean May-Brett, LATM, LSTA



Ecosystem Education Grades 5-8

July 11, 2017

Jean May-Brett, LATM, LSTA



Exploratorium Institute Physical Science Activities for Elementary/Middle Classrooms

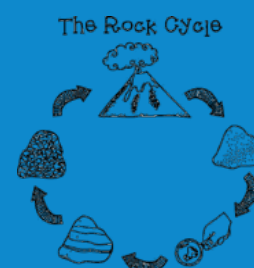
July 12, 2017

Eileen Hite



Earth Science Activities for Elementary/Middle Classrooms July 13, 2017

Janice Catledge, Eileen Hite





Core Element 2017 Summer STEM Institute Teacher Professional Development Workshops

Introduction to Coding for K-5 Teachers

June 22, 2017

This is a free Code.org Computer Science Fundamentals Workshop for Elementary and Middle School teachers, librarians, and administrators. Please bring a laptop, iPad or Chrome book. We will have a great time learning how to teach computer science and coding to our students. Attendees receive a workbook of unplugged (no computer necessary) lessons as well as a goody bag. Two to three weeks after the workshop, supplies to teach two lessons are sent to you too. We will have an hour break for lunch. Plan to have fun and know you will be ready to teach computer science and coding that afternoon (if you had to!)

Vicky Jacobsen

Code.org

LIGO Presents: Physical Science and Inquiry Classroom Activities

June 29 AND 30, 2017

LIGO teacher workshops concentrate on inquiry, interactives and the physical sciences. Day 2 of the workshop is a field trip to the LIGO Science Education Center in Livingston. Completion of this workshop will qualify you for financial support for transporting your students to the Livingston, LA Science Center for an extraordinary hands-on science fieldtrip experience.

LIGO Staff

Intro to LEGO EV3 Robotics for Grades 4-8

July 6 and 7, 2017 (2 days)

Participants will get instruction and hands-on practice with activities that will show them how to build and program robots using LEGO bricks and the LEGO® MINDSTORMS® *Education Software* and how to develop a FIRST LEGO League team at their school.

Drs. Annette Oertling and

Michelle Sanchez

Modeling Method of Instruction for Biology

July 10-21, 2017 (10 days)

The Modeling Method was developed by Arizona State University to correct many weaknesses of the traditional lecture-demonstration method, including the fragmentation of knowledge, student passivity, and the persistence of naive beliefs about the physical world.

Julie Maimes, ASU

Ecosystem Education Grades K-5

July 10, 2017

Participants will participate in activities and received curriculum guidebooks from Project Learning Tree, Project WILD, and Project WET which provide the foundation for a conservation education program for educators and their students. Activities will be selected to align with the new LA State Science Standards for elementary students.

Jean May-Brett, LATM, LSTA

Ecosystem Education Grades 5-8

July 11, 2017

Participants will participate in activities and received curriculum guidebooks from Project Learning Tree, Project WILD, and Project WET which provide the foundation for a conservation education program for educators and their students. Activities will be selected to align with the new LA State Science Standards for elementary students.

Jean May-Brett, LATM, LSTA

Exploratorium Institute Physical Science Activities for Elementary/Middle Classrooms

July 12, 2017

Come join us to explore hands-on, inquiry-rich experiences from the Exploratorium-developed classroom [activities](#) that encourage both teachers and students to build hands-on investigations of science. These inquiry activities are designed to demonstrate unexpected phenomena, spark curiosity, generate questions, and serve as the starting points for deeper classroom explorations.

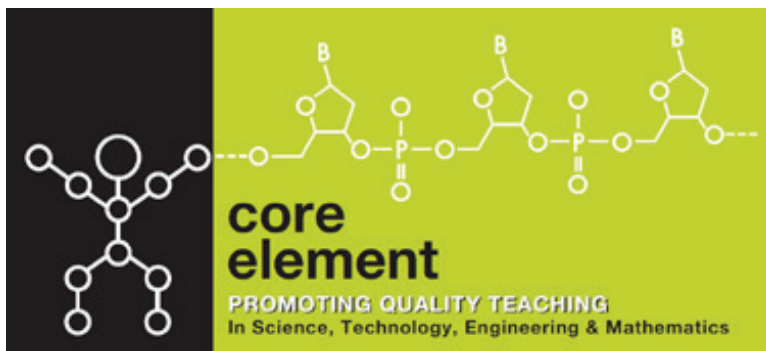
Eileen Hite

Earth Science Activities for Elementary/Middle Classrooms

July 13, 2017

Teachers will receive earth science activities from the Knowledge Box Curriculum which is correlated to new State and National Standards. Sample activities include those designed to encourage problem solving; math integration, unit conversions, and inquiry. Activity topics will include: natural resources, rock layers, drilling, rock cycle, cycling of earth materials, geologic events, and more.

Janice Catledge, Eileen Hite



It is that time again!!

Core Element will host the Third Annual “Hands-On STEM” Interactive Education Day at the Shrine on Airline with the Baby Cakes! STEM day is an opportunity to raise awareness and engage students, teachers and parents in hands-on fun activities in STEM: Science, Technology, Engineering and Math. Core Element is reaching out to our STEM partners and industry professionals. It is also an opportunity for you to highlight and promote your organization’s commitment to STEM and the community.

Last year we had over 9,000 in attendance with over 40 exhibitors. Your participation made the 2016 event a phenomenal success. School registration for 2017 has already and many new exhibitors have asked to be added to the event. We have pushed the date into May to ensure that student testing is complete and there are NO CONFLICTS for the students and teachers. Expected 2017 attendance: 10,000 to 12,000 students, grades 3 to 8; and 1,000 teachers and parents.

Here is the pertinent information!

Mark your calendar:

Wednesday, May 17, 2017

Exhibitors Set up: 7:30 am to 8:45 am

Exhibit Hours: 9 am to 2:30 pm: (Arrivals start promptly at 9 am)

The attendees will visit your booths before and throughout the game.

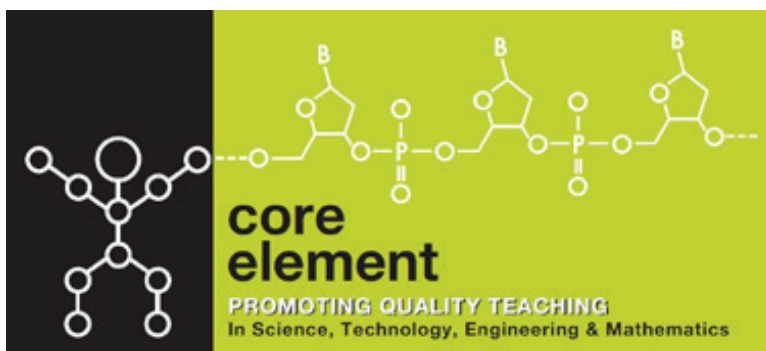
Baby Cakes game hours: First pitch: 11 am to 3 pm

Next Steps:

- **DUE FRIDAY, APRIL 21st:** Identify and prepare a description of the hands-on activity you will host at the Core Element –Baby Cakes STEM Day on May 17. Also consider creating/providing a handout or suggested lesson related to your activity that teachers can use in the classroom. Distributing promotional items is permitted. Complete and return the attached STEM Day information sheet which includes logistical needs, and contact information. (See page 7 of this issue.)
- **Please return to Jan Brennan at jan.brenan@core4kids.org no later than FRIDAY, APRIL 21.**
- Attend the follow up meeting to be held in advance of the event: date to be determined

Event Purpose:

- Provide “hands-on” learning and demonstrations for students of all ages to interact with STEM professionals in a fun, interactive environment.
- Serve as a catalyst to increase community awareness of STEM education, STEM employment opportunities and increased economic development opportunities for Southeast Louisiana.
- Work collaboratively with industry, small business, K-12 professionals, higher education, community colleges, non-profits, and media to promote economic development opportunities for Southeast Louisiana.
- Elevate community interest in STEM and create pathways that lead our youth to elevated interest in STEM subjects and rewarding STEM careers.



Zephyrs-Core Element STEM Day

Contact Sheet

Organization: _____

Address: _____ City, State, Zip: _____

Contact Person: _____ Email: _____

(title) _____ Phone: _____

Cell Phone: _____

Activity Planned:

Grade Levels Suggested: _____

Topic: _____

Tables (# Needed) _____

Chairs (# Needed) _____

Electricity Availability (Y/N)

Core Element

Jan Brenan, Executive Director

jan.brenan@core4kids.org