Congratulations to the 10 Most Promising Energy and Clean Technology Companies

AIDAP
Encline Artificial Lift Technologies LLC
Ashmin
Big Delta Systems Inc.
C-Crete Technologies LLC

HyperSciences, Inc.
Impact Technology Systems AS
INGU Solutions
IReamer LLC
Motive Drilling Technologies

The Rice Alliance's 14th Annual Energy and Clean Technology Venture Forum on September 15, 2016 was the largest energy and clean technology venture capital conference in the southwest.

This event was an opportunity to learn about the latest emerging technologies, meet investors to seek funding, see promising companies, learn about investment opportunities, meet individuals from the energy & clean technology industry, learn about promising companies seeking to expand their management team, as well networking and learning opportunities for entrepreneurs, researchers, investment professional and business executives.

The must-attend event was open to anyone involved in the energy and clean technology community in the region. The conference included industry luminary speakers, investors, and promising startups from throughout the U.S. and beyond.
2016 participating investors, venture capital, and industry participants include the following:

- 32 Degrees Capital
- Altira Group
- BADR Investments
- Bandgap Ventures
- Baker Hughes
- Black Bay Capital
- BP Ventures
- Cameron
- Chevron Technology Ventures
- Comerica – Technology and Life Sciences
- ConocoPhillips Technology Ventures
- Cypress Growth Capital
- Dow Chemical Company
- EES Ventures
- Energy Innovation Capital
- Energy Ventures
- GE Energy Ventures
- Houston Ventures
- Hunt Energy
- Independence Equity
- Lime Rock Partners
- May River Ventures
- Mercury Fund
- NGP Energy Technology Partners
- North Energy Ventures
- North Texas Angel Network
- OTM Consulting
- Palmetto Investments
- PKF Texas
- Renewable Tech Ventures
- Repsol Energy Ventures
- Saudi Aramco Energy Ventures
- Schlumberger
- Shell Technology Ventures
- Square 1 Bank
- Statoil Technology Invest
- Sumitomo Corp
- Triangle Peak Partners
- TIE Houston
- Transocean
- Viking Ventures
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<td>Houston’s Greatest Economic Development Ally – Awarded by the Greater Houston Partnership – 2008</td>
<td>Jesse H. Jones Graduate School of Business George R. Brown School of Engineering Wiess School of Natural Sciences</td>
<td>Rice Alliance for Technology and Entrepreneurship</td>
<td>© Copyright 2014 Rice University</td>
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# 14th Annual Energy & Clean Technology Venture Forum - Agenda

**Rice Alliance for Technology and Entrepreneurship**

**14th Annual Energy and Clean Technology Venture Forum**

**SEPTMBER 15, 2016**

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## Plenary Session

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<td>8:00 – 8:30 AM</td>
<td>Registration and Light Breakfast</td>
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<td>8:30 – 8:45 AM</td>
<td>Welcoming Remarks</td>
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<tr>
<td>8:45 – 9:15 AM</td>
<td>Opening Keynote</td>
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<td>9:15 – 10:00 AM</td>
<td>Company Presentations - Session 1</td>
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<td>10:00 – 10:30 AM</td>
<td>Networking Break</td>
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<tr>
<td>10:30 – 11:15 AM</td>
<td>Company Presentations - Session 2</td>
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<td>11:15 – 11:45 AM</td>
<td>Venture Capital Panel</td>
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<tr>
<td>11:45 – Noon</td>
<td>South Central Cleantech Open – Quick Pitch by Six Finalists</td>
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<tr>
<td>12:00 – 1:00 PM</td>
<td>Lunch and Networking</td>
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<td>1:00 – 1:15 PM</td>
<td>Afternoon Welcome and Introductions</td>
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<td>1:15 – 3:00 PM</td>
<td>Company Presentations - Session 3</td>
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<td>3:00 – 3:30 PM</td>
<td>Networking Break</td>
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<td>3:30 – 4:15 PM</td>
<td>Company Presentations - Session 4</td>
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<td>4:15 – 4:45 PM</td>
<td>Corporate Venture Capital Panel</td>
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<tr>
<td>4:45 – 5:00 PM</td>
<td>Closing Remarks and Award Recipients</td>
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<tr>
<td>5:00 – 6:30 PM</td>
<td>Company Showcase and Networking Reception (Anderson Family Commons)</td>
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## Morning Breakout – Anderson Family Commons

Moderated by: John (JR) Reale, Station Houston

<table>
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<tbody>
<tr>
<td>10:30 – 11:00 AM</td>
<td>Accelerators and Incubators – Providing Resources the for Building Successful Energy Startups in Texas</td>
</tr>
<tr>
<td></td>
<td>- Austin Technology Incubator – Bart Bohn</td>
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<tr>
<td></td>
<td>- Houston Technology Center – Maryanne Maldonado</td>
</tr>
<tr>
<td></td>
<td>- Station Houston – John (JR) Reale</td>
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<tr>
<td></td>
<td>- SXSW Eco – Carolyn Harrold</td>
</tr>
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## Event Information

**14th Annual Energy and Clean Technology Venture Forum**

**Thursday, September 15, 2016**

8:00 am - 6:30 pm

McNair Hall, Rice University

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## Sponsors

### 2016 Sponsors

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#### Gold Underwriters

- [Wells Fargo](#)
- [Baker Hughes](#)
- [BP](#)
### 14th Annual Energy & Clean Technology Venture Forum - Agenda

#### Village Capital – Hannah Lewis

11:00 – 11:30 AM

Avoiding the Landmines on the Road to Growing a Successful Energy Tech Startup Company

- Andrew Clark, Texas Halo Fund
- Brian Fenske, Norton Rose Fulbright
- Keith Kreuer, RedHouse Associates
- John Hanten, Energy Innovation Capital

#### Angel Investors – Keys to Obtaining Seed and Early Funding from some of the Most Angel Groups in the U.S.

11:30 – Noon

- Aggie Angel Network – Blake Petty
- Central Texas Angel Network – John Shaw
- Houston Angel Network – Juliana Garaizar
- TIE Angels – Michael Raspino

#### Noon – 1:00 PM

Lunch and Networking

### Afternoon Breakout Session 1 – Upstream Technology Innovation in a Low Crude Price Environment

**Reducing Total E&P Costs and Reducing Cost & Time to First Oil Production**

#### Room 318 (Third Floor)

**Moderator:** Tom Gay, formerly ExxonMobil and BG Group

1:00 – 1:10 PM

**Afternoon Welcome and Introductions**

1:15 – 1:40 PM

**Keynote Speaker:** Creative Destruction, NOW!

- Ram Shenoy, Chief Technology Officer (former), ConocoPhillips

1:45 – 2:25 PM

**Upstream Technology and Process Needs in an Uncertain Commodity Price Environment – Perspectives from Oil Company Operators**

- Jim Raney, Engineering & Technology Manager, Anadarko
- Matt Dawson, Investment Manager, Statoil
- Loren Long, Managing Director, Talos Energy
- Joe Lach, Senior Reservoir Advisor, Noble Energy
- Henry St Aubyn, Principal, OTM Consulting – Houston

#### Technology and Process Needs – Perspectives from Innovative Technology Providers

**Moderator:** Tom Williams, President, RPSEA

2:30 – 3:00 PM

- Carl Embry, Managing Director, 3D at Depth
- Dane Witbeck, CEO and Co-Founder, Meshify

### Afternoon Breakout Session 2 – South Central Region Cleantech Open – Finalist Presentations

Get a first look at the finalists who will be representing the South Central Region in the National Cleantech Open Finals

#### Room 316 (Third Floor)

**Moderator:** Luis Rietti, Cleantech Open - South Central Region

1:00 – 3:00 PM

**Cleantech Open Finalists (10 minutes presentation, plus 10 minutes Q&A + Feedback)**

- Artesian Insights
- Bliss Transit
- Dejalytics
- SENSCO
- Syven Technologies
- WAVVE Stream

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Janice and Robert McNair Hall
P.O. Box 2932-MS 531
Houston, Texas 77252-2932
AIDAP provides intelligent software solutions to the oil & gas industry that combine automated knowledge capture and transfer with real-time drilling optimization.

AIDAP, a drilling software company provides intelligent software solutions to the oil & gas industry. We are a multidisciplinary team of experienced drilling engineers, data scientists, and software developers. Our mission as a company is to design solutions that gradually reduce Non-Productive Time during drilling operations, and help client organizations capture the expertise and best practices from drilling experts within their organization, retain that expertise, and automatically share the retained expertise with every engineer within the organization to enable better decision making during future drilling operations. AIDAP’s first product, DrillVista™, is the first intelligent drilling analytics platform that combines real-time drilling analytics with automated knowledge capture to improve real-time decision making and help operators identify drilling hazards before they occur. www.aidap.com

We make wind turbines smarter by enabling them to instantly react to changes in the wind.

In order to continue designing larger wind turbines to extend the steady decline in the cost of wind energy, designers must find a way to mitigate unsteady fatigue loads caused by turbulence, wind shear, and gusts. All of the remedies tried to date have moving parts, which are costly and complex. Aquanis is developing a new technology that can address the problem with no blade modifications and no moving parts. The Aquanis system is the solution that the wind industry has been waiting for. www.aquanisinc.com

We help businesses develop water usage and risk management strategies using availability forecasts built with machine learning.

Water is life, for you AND every step in your business’s supply chain. We harness big data to reveal hidden opportunities and give you the power to turn challenges into advantages. We provide the complete picture on future water availability allowing you to gain the tactical agility to maximize your investment and reduce risks. More than solutions just months in advance, Artesian Insights is the only company that can give you the knowledge to craft a long-term strategy that meets changing conditions for your business’s future. Our team includes scientists and practitioners with over 80 years of combined experience in the fields of hydrology, big data, machine learning, mathematics and GIS. We are doing all of the hard things so you can focus on running your business efficiently. www.artesianinsights.com

Ashmin researches, develops and commercializes downhole drilling and thrutchining technologies for the oil and gas industry.

We develop reliable, innovative downhole drilling and thrutchining technology for the oil and gas industry. Our projects include multi-year R&D programs, design and sustaining...
C-Crete is a multiple award-winning start-up company focused on creating an
efficient, low cost, and durable self-healing cementing technology for various oil
and gas reservoirs and storage sites.

Bractlet is an energy technology company that specializes in providing energy
savings analysis to building owners who would like to reduce their energy costs
by 20-50% per year.

Bractlet is an energy technology company based in Austin, Texas that provides
customized energy management solutions to companies in need of saving energy
and reducing costs. They use advanced technologies to provide personalized solutions
tailored to each client's needs. Their platform integrates with existing building systems
to provide real-time data analysis and recommendations for energy savings.

Big Delta Systems has developed a breakthrough manufacturing process for
making key components in Li-ion batteries. Big Delta Systems has developed a breakthrough manufacturing process for making key components in Li-ion batteries. With our scaled-up, low-cost manufacturing process, we are
taking a fundamentally different approach to engineer batteries that will push the
performance envelope of Li-ion batteries far beyond its current limits.

BiSN offers genomic diagnostics services for microbial challenges in the oil and gas.
BiSN offers diagnostic services and solutions for microbial challenges in the oil industry. BiSN has leveraged the reduced cost of DNA sequencing to deliver clinical level
diagnostic specifically tailored to the needs of the oil and gas industry. Data generated allows companies to take corrective action ahead of potential costly consequences.

GridWorld researches and develops geological modeling and simulation software.
Beijing GridWorld Software Technology Co., Ltd is based in Beijing and has subsidiaries
in Nanjing and Houston. With more than 20-year research and development, GridWorld
has researched some innovative gridding and modeling algorithms based on which
several geological modeling and simulation products have been developed with
functional modules as follows: structural modeling, velocity and attribute modeling,
reservoir geological modeling, geomechanics, paleo-structural restoration and enormous
modeling. Compared with other commercial software, the biggest advantage of our
products is to deal with very complex geological scenario much more effectively, efficiently
and stably, and can also export perfect grid based on the complex models for reservoir
simulations. Currently, we are further developing these innovative algorithms's
application on shale gas, and its superiority is very obvious.

Bliss Transit is a B2B Commuting-as-a-Service ("CaaS") solutions provider, focused
exclusively on delivering transportation services to companies in need of commuting
solutions for their employees. Bliss designs and operates two complimentary systems, each of which can be tailored to the specific needs of your business. 1) The Bliss Express is a system of dedicated luxury commuter shuttles and private park and ride stations. Modern, Wi-Fi-enabled 25-seat shuttles, designed to enhance comfort and productivity, transport employees with 30+ minute commutes directly to your office from
Park and Ride stations strategically located in the neighborhoods where large numbers
of your employees live. 2) The Bliss Rail Extender is a private "Last Mile" shuttle, transporting employees that want to commute via the MetroRail, but can't due to the
distance between the MetroRail station and your office.

A company that offers a range of services and solutions related to energy management,
sustainability, and innovation. They focus on providing energy-efficient and sustainable
solutions to help organizations achieve their goals. Their services and products
are designed to help companies reduce energy consumption, increase efficiency,
and drive overall sustainability within their operations.

We help employers solve employee commuting problems, increasing employee
satisfaction, retention, and productivity, by connecting their offices to MetroRail
stations via Last Mile Commuter shuttles.

C-crete is a multiple award-winning start-up company focused on creating an
efficient, low cost, and durable self-healing cementing technology for various oil
and gas reservoirs and storage sites.

C-Crete Technologies LLC is a multiple award-winning start-up company based in
Houston that is focused on commercialization of an advanced self-healing technology for
well cementing applications. Disasters such as 2010 Gulf of Mexico oil spill or the recent
2015 Aliso Canyon gas leak in California had such a large negative impact that halted
the production and entailed repair costs and damage on the order of billions of dollars. C-Crete had developed a programmable, low cost and durable self-healing technology applicable to various conditions in both remedial and primary cementing jobs, making it a superior product compared to existing solutions. The company has won several prestigious entrepreneurial awards including the grand prize of MIT's $100K Business Plan Competition. The C-Crete team assembles technical leaders and significance experience in all aspects of our patented technology including advanced synthesis and high-level characterization as well as entrepreneurial and business development skills. www.ccretetech.com

Clean Energy Systems has developed game-changing technology that revolutionizes the power industry by eliminating the traditional power plant stack and making zero-emission and negative carbon cycle power plants a reality. Based on proven rocket technology, the CES oxy-fuel system produces clean, high-energy drive gases for the generation of electrical power. The incorporation of oxy-fuel combustion and compact heat exchanger technology into conventional power generation systems makes zero-emissions power plants (ZEPPs) based on fossil fuels practical today. When operating with biofuels, negative carbon cycles are achieved on a utility-scale. ZEPPs have multiple advantages, including compact and lower cost equipment, high cycle efficiencies with advanced turbines, complete carbon capture and sequestration of the carbon dioxide (CO2) effluent, and zero emissions (or ultra-low emissions when the exhaust is vented to the atmosphere as in a peaking power plant). Large-scale renewable energy storage is achieved with hydrogen-oxygen (“HyOx”) systems and use of CES’ compact heat exchangers for molten salt applications. License agreements are in place with strategic partners, and commercial deployment is expected in 2017.

ConXtech Inc., the developer of ConX®, a revolutionary structural steel building system that delivers robust, cost-efficient and sustainable structures. ConXtech is a privately-held construction technology company based in the San Francisco Bay Area. With the mission to “Improve Lives by Changing the Way the World Builds” the company offers ConX®, a Chassis Based Modular™ structural steel system based on standardized moment connections and building assemblies. The system enables efficient delivery of robust and brace free structures for industrial, high-density residential, commercial, healthcare, data center and other applications. ConX is the first Cradle to Cradle Certified structural steel solution in the world. It reduces project schedule and installed cost compared to conventional structural options. The system enables all project stakeholders to predictably build Faster, Better, Safer and Greener™. www.conxtech.com

DBE is a 36 year old environmental engineering service provider. After the assessment of over 50 clean technologies and a 7 year focus on the water energy nexus, DBE has now developed a disruptive water treatment/energy reduction technology. DBE has developed two proven patented technologies; High intensity Froth Flotation (HIFF) and Replaceable Skin Layer membrane filtration (RSL). Both technologies use the same very effective method to cause colloidal solid destabilization. The result is: (1) HIFF causes conventional flotation technology to perform 2-4 times faster. (2) The RSL eliminates the problem of conventional membranes which have fixed skin layers that foul and become very difficult to clean. Compared to conventional membranes, RSL membranes provide a 10 fold loading rate improvement resulting in similar cost and energy improvements. The Chinese Ministry of Environmental Protection rates the technology as one of the top 100 environmental technologies in the world. The application is “boundless” and very cost and energy effective. We have a specific opportunity to apply the technology for SAGD (unconventional oil) operations in Canada. The project value is $17 million and non-dilutive funding of $12 million is in the final stages of confirmation. www.dbe2000.com

Dejaytixs delivers exceptionally accurate predictions-as-a-service that enable better decisions by participants in wholesale energy markets. Dejaytixs is a predictive analytics and big data company focused on wholesale energy markets. We have built a forecasting platform, incorporating proprietary algorithms, for delivering exceptionally accurate models for wholesale energy prices. Our first product/service, for the PJM Interconnect market, is running on our cloud infrastructure and is currently being evaluated by major generators and utilities. The members of the founding team have decades of experience in their respective fields of system architecture, data management, data mining, software engineering, sales and marketing of B2B software products. We have bootstrapped the venture through our own resources and via strategic alliances covering technology, access to data sources, domain expertise and channels to customers. www.dejaytixs.com

Drylet's innovative biotechnology acts as a biocatalyst that significantly lowers operating and maintenance costs for biosolids management in wastewater, animal waste, and other bioprocessing industries. Drylet makes bioremediation effective. Drylet’s innovative biotechnology acts as a delivery system and micro-bioreactor enhancing both microbial growth and activity.
Drylet, through increased microbial activity, delivers faster better yields than traditional methods of microbial growth. Drylet is differentiated by the use of a specific particle technology preloaded with specific cultures of microbes. Each individual application is tailored with the right mix of microorganisms. Drylet’s product is delivered “dry to the touch,” increasing shelf life and improving application for difficult bioremediation applications. The company is currently providing significant benefits to the wastewater industry by improving plant carrying capacity and biosolids production. In the animal waste industry, the company has demonstrated the ability to improve livestock survival rate and improvements in the rate of weight gain. Both aspects have a dramatic effect on meat production economics. Drylet is committed to technology and product applications that support a cleaner planet. www.drylet.com

Dynamo solves O&G customers power challenges with an Any-Gas industrial turbine
Dynamo sells a gas turbine which increases power reliability for customers while reducing the cost of ownership by operating on Any-Gas—be it propane, natural gas, or casing gas. Dynamo turbines thrive in a market currently dominated by diesel engines—a $5B opportunity. Dynamo has commercial pilots with market leaders in select applications.
www.dynamosat.com

Enclave Artificial Lift Technologies brings IoT technologies and real-time optimization to artificial lift equipment for horizontal oil wells.
Enclave Artificial Lift Technologies brings IoT technologies and real-time optimization to artificial lift. We create simple, robust IT hardware with embedded “learning” algorithms for automating equipment. Enclave has two proven field-tested products: 1. Pump Stroke Optimization (PSO): PSO is a “learning cruise control” for sucker rod pumps. PSO autonomously adjusts pump speed to optimize pump fillage. In field trials, PSO-controlled wells used up to 60% fewer pump strokes while maintaining oil production. The cost of PSO can be recovered or exceeded by power savings, making its other benefits free (reduced equipment wear, less manpower). EAGLE electric gas-lift compressor: The EAGLE control system is like a “Nest Learning Thermostat” to control the temperature of injected gas. Proper temperature control minimizes production downtime by preventing hydrates from forming, scrubber dump lines from freezing, and unwanted tank vapor emissions. Two EAGLE units are effectively eliminating condensation and associated downtime in ongoing field trials. www.enclinelift.com

EEG is applying a new carbon capture technology to engines, which will in turn provide both power and CO2 at pressure needed for Enhanced Oil Recovery, focusing on the smaller customers / fields, which will never be served by pipeline.
Enhanced Energy Group - Power without a Tailpipe - Virtual CO2 Pipeline Enhanced Energy Group (EEG) is commercializing a distributed, co-generation system based on exclusively licensed US Navy patents and newly granted IP. This “Semi-Closed Cycle” (SCC) technology results in both non-emissive power and capture / provision of CO2 at pressure. The technology from the Navy was turbine based, but EEG has applied the SCC to both compression and spark ignition piston engines. SCC Piston Engine systems would cover the range of 0.5 to 20+ MW. CO2 provision rate would be ~0.1 to ~15 MMSCF / Day. Mole Sieve technology is used for both the generation of the artificial atmosphere for the engines, and for the gas dehydration and purification. For the customer, the price of CO2 can be competitive with or superior to pipeline provision. The cycle has >95% carbon capture, and will meet all EPA emissions requirements.
www.enhancedenergygroup.com

ES Xplore’s technology is a totally passive exploration technique that utilizes the earth’s naturally produced electromagnetic fields to directly detect hydrocarbons.
ES Xplore has developed a novel direct hydrocarbon indication technology for onshore fields. The key physical mechanism underlying ES Xplore’s technology is the ability of rocks to convert electromagnetic energy into seismic or acoustic energy and, in turn, convert seismic energy into electromagnetic energy. The significance of these conversions to our technology is due to their enhancement by the presence of very electrically resistive fluids such as hydrocarbons in the rock pore space and by more highly permeable rocks. ES Xplore’s technology is a totally passive technique that utilizes the earth’s naturally produced electromagnetic fields to directly detect hydrocarbons. Unlike other electromagnetic techniques, ES Xplore has spatial resolution on the order of geologic units. ES Xplore’s technology is the only passive exploration method that senses the electrical resistivity and permeability of a formation at seismic resolutions. ES Xplore holds eleven patents on the technology and has several additional patents pending. www.esxplore.com

Global monitoring and measurement of methane emissions, using satellite technology
GHGSat’s vision is to become the global standard for monitoring greenhouse gas (GHG) emissions from industrial facilities. GHGSat offers monitoring and measurement services to industrial operators, using patented satellite technology. GHGSat’s satellite technology provides significantly higher precision at a fraction of the cost of many ground-based methods. www.ghgsat.com
HyperDrill: Game-changing Hypersonic Percussive Impact Drilling Tool up to 10X Rate Of Penetration (ROP) improvement over conventional drilling in deep, hard rock. Proven Technology. Shell GC & Private Funded, Seeking Series $7-10M series A

HyperSciences, Inc with Shell Game Changer program funding and technical support is commercializing its Patented HyperDrill™ hypersonic, percussive drilling system. Steerable and compatible with conventional drilling rigs, HyperDrill’s Mach-6 projectiles are hyper-jet accelerated thru a BHA tool at hole bottom, delivering up to 10X rate of penetration (ROP) over best-in-class rotary drilling in high-strength/high borehole pressure environments. Proven in 2016 in Shell-sponsored testing, HyperDrill™ significantly improves conventional hard rock resource economics and enabling access to new and unconventional oil/gas/geothermal resources. HyperDrill has been developed and test-proven through funding (over $2M in private angel funding) and by additional Shell contract nonequity funding for the past 2 years and presents a true game changing technology as multi-billion dollar business opportunity in drilling improvement. With our veteran Houston drill tool engineering and management team and Northwest-based hypersonic team, HyperSciences is raising a $6-$10M series A round for Field demonstration of HyperDrill within 20 months.

www.hypersciences.com

Impact Technology Systems AS has developed an environmentally friendly and cost effective technology for enhanced oil recovery oil recovery.

Impact Technology Systems AS (‘ITS’) has developed a technology for enhanced oil recovery that plugs into existing water injection systems. The technology stimulates oil reservoirs through high amplitude pulses with extremely short rise time (<1 ms). The technology mobilizes trapped oil in reservoirs by increasing sweep efficiency of water flooding, using impact dynamics to overcome capillary forces. The technology has been developed under a research program funded by the Norwegian Research Council. The company has built two full scale pilots of the Fluid Driver Unit, of which one is currently operated and tested in Texas. Both laboratory tests on sandstone cores and testing on producing oil fields confirm a significant increase in oil recovery. The technology is environmentally friendly, as it requires no chemicals and has low energy consumption. The company has signed its first commercial agreement with an operator and is ready to move to commercialization.

Induo provides online courses that bridge the gap between technical knowledge and commercial application for client facing professionals in the Oil & Gas Industry.

Induo is an online and mobile educational technology solution that strives to help client facing professionals in the Oil & Gas industry bridge the gap between technical knowledge and commercial application. These courses aim to take complex technical information and quickly filter them down to focus on what key aspects truly matter when Oil & Gas customers make purchasing decisions. For example, “safety solutions in downstream refineries” would explain the significance and cost of downtime, standard regulations and regulatory bodies involved, as well as the KPI’s of key decision makers in this space. Induo differs from competitive educational technology platforms in Oil & Gas because the sensors can be used during regular operations and provide information on flow dynamics and asset integrity leading to improved operational efficiency.

www.induo.com

Advanced data analytics for safer pipelines using free-flowing smart sensors

Ingu Solutions offers a unique way to measure flow dynamics of liquids. Our golf ball sized smart sensors are designed for frequent use allowing increasingly precise analytics. The solution is particularly suited for pipelines and industrial installations because the sensors can be used during regular operations and provide information on flow dynamics and asset integrity leading to improved operational efficiency.

www.ingu.co

Using the power of Predictive Analytics and customer intelligence to dramatically change the way energy is procured, delivered and consumed

Innowatts is a Houston based technology focused energy company focused on streamlining the utility value chain through its machine learning enabled digital utility platform. Our vision is to eliminate 1/3rd of cost from the current utility structure while empowering consumers with personalized energy plans and services. Innowatts Power EASE platform has been utilized by some of the world’s largest companies in the Energy and Utilities sector, producing significant cost savings, and generating major improvements in customer experience. In its 2nd full year of operations, the platform is analyzing data from over 5 MM meters, generating daily insights across the value chain from energy procurement to predictive alerts and automated communications to end customers. Our growth plan includes domestic and international expansion within the utility and competitive energy markets, and expanding the platform into gas and water markets. www.innowatts.com

iReamer LLC is developing intelligent downhole tools that combine next
generation electronics technology with proven downhole tool methodology to improve the efficiency of drilling operations and decrease drilling time and cost. Operators are constantly seeking ways to improve drilling efficiency and reduce cost, particularly in today’s low oil price environment. Conventional downhole tools require mechanical ("manual") actuation, which can take half an hour of nonproductive time every time the tool is engaged. iReamer’s Intelligent Tool Controller provides immediate, autonomous actuation, reducing nonproductive time. Many horizontal wells are drilled using high cost Rotary Steerable Systems (RSS) instead of lower cost mud motors to achieve required precision and wellbore quality. iReamer is developing an autonomous Reamer Stabilizer Tool that makes mud motors easier to steer and facilitates more stable and accurate drilling. This allows the use of high performance mud motors in place of RSS technology in numerous applications with a significant savings per well.

We have developed a disruptive technology to reform hydrocarbons to syngas. KnightHawk ETEC (KHETEC) has developed the Hydrogen Torch Reformer (HTR) which is a patent pending technology to reform hydrocarbons into syngas (CO + H2) without the need of catalyst. The HTR also requires significantly less capital than current technologies, is flexible to varying feed stocks and is scalable from small mobile to large industrialized applications. Potential applications include, waste gas conversion to hydrogen for hydrotreating units, hazardous waste remediation, waste to energy conversion, synthetic fuels production, etc. The HTR has undergone testing and development with different hydrocarbon streams at the KHETEC facilities laboratory. The results were verified in connection with Texas A&M University. KHETEC is seeking funding and strategic partners www.knighthawk.com

In order to reduce horizontal well drilling costs, Motive has introduced a system based on machine intelligence that automatically completes all standard directional drilling calculations normally performed by a directional driller, performs additional an
Motive Drilling Technologies has developed a Directional Drilling Bit Guidance System that both reduces drilling costs and improves the overall hydrocarbon production potential of completed wells. Many of the problems seen with directional drilling performance have been addressed with the development of an automated Directional Drilling Bit Guidance System using machine intelligence. The system automatically completes all standard directional drilling calculations normally performed by the directional driller, performs additional analyses using advanced algorithms, and makes the directional drilling steering decisions based on these calculations together with operator defined parameters. Earlier this year, Motive Drilling Technologies, announced a $10.5 million Series A funding round led by California based investors Formation 8 and GE Ventures. Funding is currently being used to expand deployment of the Bit Guidance System both in the US and internationally. The system has been used to guide over 125 horizontal wells to date as Motive continues to expand. www.motivedrilling.com

LumiShield creates sustainable alternatives to toxic metal anti-corrosion coatings. Corrosion costs the U.S economy $300 billion annually. Many of the best protective coatings are based on toxic metals like cadmium and chromium. LumiShield has developed a proprietary process which creates alternative coatings from clean, safe aluminum and is commercializing it in the $1.1 billion cadmium replacement market. The company, which has its roots in a collaboration between the National Energy Technology Laboratory and Carnegie Mellon University, has gained exclusive rights to that technology. Using a combination of SBIR funding and investment, LumiShield has proven the technology and will soon be demonstrating it in a number of commercial plating shops. Market entry is expected in 2018. www.lumishieldtech.com

NanoPhyll develops, manufactures and distribute the most cost efficient smart coatings that are engineered films that respond to local environment such as light. NanoPhyll develops, manufactures and distribute the most cost efficient smart coatings that are engineered films that respond to local environment such as light. Our Key Services are: development of integrated coatings on client product or substrate (glass, wood, ceramic, cement, metal, plastics etc.). Our Key Products are: Anti-microbial Ceramics and HVAC : laboratories, health, agri-food; Self-cleaning Concrete: commercial and industrial; De-polluting Coatings : anti-NOx for transport & industrial sectors; Anti-Ice & Superhydrophobic coatings: for the transport and energy sectors; Fluoropolymer coatings for heat exchanger; Non-sticky coatings for Oil & Gas drilling; Slippery liquid infused porous surfaces for valves; Iepohobic coatings. www.nanophyll.com

NETenergy is a thermal energy storage company that saves building owners and utilities money by storing energy at night when prices and demand are low.
NETenergy, a participant in the Wells Fargo Innovation Incubator (IN2) program, is a thermal energy storage (TES) company. NETenergy has created a thermal battery that integrates with small commercial building air conditioning systems. The system works by storing energy thermally at night when electricity demand and prices are low. During the day the thermal battery provides cooling to the building in lieu of running the air conditioner, reducing peak demand and lowering on-peak consumption. By utilizing NETenergy’s thermal battery, building owners can save 30% on their electricity costs and
also reduce carbon emissions by up to 50%. Given that cooling drives peak demand, NETenergy’s thermal battery also provides utilities with an opportunity to reduce the need to build peaker power plants. www.netenergytes.com

OptiEnz Sensors provides sensors that continuously measure the concentration of organic chemicals in water and aqueous solutions, enabling customers with water-based industrial processes to lower cost, increase efficiency, and ensure process quality.

OptiEnz Sensors drastically reduces the time required to obtain measurements of organic chemicals in water and aqueous solutions. Monitoring water is of major importance for oil and gas waste water treatment facilities, biotech firms, biofuel plants, and environmental firms performing groundwater site remediation. Today, process operators don’t have access to real-time data. After sending samples to expensive analytical laboratories it takes hours, days, or weeks to get answers. Without real-time, on-line data it isn’t possible to optimize process performance, lower costs, increase efficiency, and ensure process compliance. OptiEnz Sensors has developed breakthrough technology for making real-time decisions — biosensors based on a combination of enzymes and fiber optic technology providing real-time continuous measurement results with the same accuracy as laboratory equipment. OptiEnz measures a broad range of organic chemicals including sugars, alcohols, hydrocarbons, and solvents. www.optienz.com

Orbital Traction improves the efficiency and performance of diesel engines by modulating the speed of accessories such as the cooling fan, alternator and water pump with a compact, highly reliable and patent protected transmission.

Orbital Traction (Orbital) is developing controlled velocity accessory drives (CVAD) for use on heavy-duty engines that improve performance, increase system efficiency and reduce engine emissions. Orbital’s products can increase a system’s fuel efficiency by 7%-10% at a lower cost than existing alternatives. Orbital is a late stage startup seeking to commercialize products that target the $20B heavy-duty engine accessory drive market. Orbital’s management team has significant industry experience and a track record of establishing and successfully exiting companies. The technology is patented and commercially proven. Orbital has successfully licensed its technology for two separate applications. Orbital has been awarded seven Small Business Innovation Research (SBIR) contracts to develop and demonstrate the CVAD on military vehicles. Orbital is currently performing on-vehicle testing with a CVAD fan drive on a heavy duty military truck and has validated baseline 3% fuel efficiency improvements and 6% NOx emission reduction through independent laboratory testing.

Ossia delivers Cota, a wireless power technology that can power multiple moving devices remotely without requiring line of sight between the power source and the device ultimately providing for a WiFi like experience for both power and data.

Ossia, Inc. is the company behind the groundbreaking Cota® remote wireless power technology. Ossia redefines what it means for power to be wireless. By safely and efficiently delivering targeted energy to automatically power multiple moving devices at a distance, the Cota transmitter serves also as a hub, providing power and data to smaller devices. Ossia envisions numerous opportunities to impact the world that stretch far beyond the home. The oil and gas industry for one has long sought wireless power to reduce the chance of disastrous sparking from the multitude of wires powering their sensors. Cota solves the safety hazard while significantly reducing the costs of installation and allowing for a cluster of omnipresent live collection of data. With Cota, forward thinking companies are well poised to deliver a huge value-add while enhancing their operations by finally reaping the benefits of IoT and enabling an always on, always forward-thinking companies.

Ossia delivers Cota, a wireless power technology that can power multiple moving devices remotely without requiring line of sight between the power source and the device ultimately providing for a WiFi like experience for both power and data.

Process Vision delivers both improved economic performance and enhanced safety for gas processors and pipeline operators

Undetected liquids, hydrates and foam cost the natural gas industry $millions. IMA Ltd., having operated in the oil & gas sector for 26 years, developed LineVu, a game changing product that improves the economics of gas production and distribution, which is being spun out into Process Vision. Liquid carry-over is a common causes of capacity constraints, process failures, pipeline corrosion and damage to plant such as compressors, absorber beds and gas turbines. Process Vision’s innovative approach improves safety and process efficiency, and prevents lengthy downtime at gas processing plants and custody transfer points. The patents pending device provides live video and automatically raises an alarm if high pressure systems are contaminated, allowing prompt and informed decisions to be made to reduce the impact of process failure, plant damage, or contamination of sales gas. LineVu2 will use a new, highly sensitive Raman spectrometer based system to measure and identify contaminant components.

Distributing machines that converts mixed plastics into chemicals that can make plastic again.

Pyrowave is redefining the plastic recycling business by distributing a unique technology that converts mixed plastics into chemicals used for making new plastics. Its patented technology is Catalytic Microwave Depolymerization and uses microwaves to selectively...
break the plastic molecules into products that are later purchased by plastic manufacturers to make new plastics. The company leases machines to operators. Mixed plastics is fed into the machine by the operator and the liquid product is stored into an intermodal container tank and Pyrowave ensures timely pickup of the product containers. Pyrowave pays the operator a predetermined price for the output liquid as function of the quality. The operator sees a positive return on investment by reducing the sorting costs, getting higher value per ton of input material, allowing him to tap into the much larger the post-consumer plastics waste stream and grow his business. www.pyrowave.com

We are an inventory management company that uses a six-sigma based SaaS offering to provide operational analytics to oilfield organizations. We are helping our clients bring their inventory in control by pulling data from their current ERP systems and using statistical modeling to evaluate whether the inventory is in control or not. Our system utilizes six-sigma equations to analyze inventory flow to help reduce variation. We then use predictive analytics to help our clients determine what level of inventory will be needed in the future based on external factors affecting oilfield operations. Our complete solution involves the use of sensors (RFID, barcodes etc.) to make the inventory management process as hands-off/autonomous as possible to enhance better tracking of assets with greater control and visibility. We utilize a simple GUI to help our clients visualize the data. Our end goal is to help our client's decision-making process simpler through statistical data indicating the optimal amount of inventory needed at a certain period in time. www.rigbasket.com

SENSCO's intelligent pipeline sensor modules and real-time data analytics software help facilities owners and utility operators understand how water flows and is used throughout their entire system. SENSco's intelligent pipeline sensor modules and real-time data analytics software help facilities owners and utility operators understand how water flows and is used throughout their entire system. We provide actionable data that helps operators manage their pipeline assets more efficiently, optimize operational costs and prioritize infrastructure investments and repairs. www.senscosolutions.com

Using borehole gravity for reservoir management
Silicon MicroGravity is a spinout company from Cambridge University. The Company has developed a high performance MEMS accelerometer with a projected resolution of approximately one billionth of the Earth’s gravity. SMG is a collaboration with the energy company, BP, which has been funding the development of the technology for nearly six years. SMG has been launched with initial funding of $3m from VCs in London and Cambridge together with grant funding from the UK Government. www.silicong.com

Skyven Technologies has developed a Solar Concentrating System (SCS) for generating zero emissions high temperature thermal energy for commercial water heating, space cooling and industrial process heat. Skyven Technologies has developed a Solar Concentrating System (SCS) for generating zero emissions high temperature thermal energy for commercial water heating, space cooling and industrial process heat. The high efficiency, reliability and low cost of our solution provides customers with the most compelling zero emissions thermal energy source. Benefits include: less than 50% of the life-cycle cost of traditional solar thermal with dramatically reduced risk of overheating failure; produces thermal energy up to 250°C (480°F) with zero emissions/greenhouse gasses (important for compliance with Zero Net Energy market mandates); less than 50% of the cost of solar PV in direct thermal energy applications; and approximately 1/3 the system cost compared to other Renewables + Storage due to ability to integrate high temperature thermal energy storage. Skyven received a $180K NSF SBIR Phase I grant in 2015 and is currently up for review for a $750K SBIR Phase II grant. www.skyven.co

SolarOne Solutions provides highly reliable grid-independent solar powered lighting solutions for industrial, municipal, commercial and government agency applications such as roadway, security, parking lot and signage illumination. SolarOne Solutions, based in Needham, Massachusetts, has been a pioneer and leader in solar-powered outdoor LED lighting solutions since its founding in 2004. Its proprietary SOBright® technology delivers the highest reliability and best-in-class efficiency, which has resulted in it being selected to deliver thousands of systems for installation in over 15 countries. SolarOne’s solar + LED + battery solution delivers a day-one cost savings over grid-connected outdoor lighting in greenfield installations, while significantly reducing an installation’s environmental footprint, and shortening construction times. Recently, SolarOne’s demonstrated system reliability and service has made it the preferred choice for lighting new roads being constructed for major industries and governments in the Middle East, which has resulted in a significant business growth. The Company is seeking $2.5 million to engineer its systems to integrate Internet of Things functionality, as well as to fund marketing initiatives to support growth into Latin America and Africa. www.solarone.net

We research and develop chemical processes that enable the CNT and carbon black industry to clean manufacture a low cost standardized product.
Solid Carbon Products LLC makes your CO2 profitable and delivers Carbon Capture and Profitability (CCP®) by converting carbon dioxide (CO2) into pure water and valuable carbon products through a patented, low cost, catalytic converter. The carbon dioxide is permanently sequestered. The carbon becomes a valuable industrial material, whether in the form of carbon nanotubes, carbon fiber or other morphologies. The SCP process is a breakthrough in quality, and more particularly in the cost of carbon production. SCP won the 2011 Utah Innovation Award in the category “Clean Technology and Energy” for our CO2 Catalytic Converter. The Company has exclusive worldwide rights to a patent pool for producing solid carbon from CO2 using catalysts and reaction conditions to control the product type and quality. The ability to convert CO2 into valuable solid carbon products is the key to transforming CO2 from an environmental liability into a valuable resource and profit center.

Sourcewater, founded at MIT and based in Houston, is the water exchange for the energy ecosystem, the first online marketplace for sourcing, recycling, transporting and disposing of water for energy production, a $50 billion U.S. market.

Sourcewater, founded at MIT, headquartered in Houston, is the water exchange for the energy ecosystem. Our marketplace enables energy companies to minimize their majority operating cost, water management, when cost reduction is a survival necessity. We also ensure a reliable mission-critical supply chain for the primary input and output of upstream energy production, and reduce the environmental and community impacts of energy production through shorter hauling distances, increased wastewater recycling, and nonfreshwater use. For service providers, Sourcewater offers a platform to reduce sales cost and maximizes utilization and profits, similar to travel marketplaces like Expedia. We also improve vendor accountability throughout the ecosystem by real-time tracking of water pickups, deliveries and payments. In Texas alone, operators lose ~$2 billion/year to water hauling invoice fraud. We are now used by dozens of leading operators and hundreds of service companies in the Marcellus, and have pilots with the top three Texas operators.

Sweet Gazoil provides the most innovative, profitable and environmentally friendly solutions for the processing of used oils and other wastes such as plastic and tires in a continuous process.

Sweet Gazoil, Inc will provide the best solutions for the treatment of used/ waste oils and other hydrocarbons. The motto is “Ecologically turning used and waste oils into gold.” The technologies include innovative solutions for the distillation, cracking and stabilizing of hydrocarbons that are resistant to fouling. The Intellectual property includes 6 family of patents comprising 7 patents and 22 patent applications. Presently, the company is building a 20 ton a day plant which will be ready by the end of 2016. The market were the technologies provide big advantages are the used/waste oil market, plastic waste and rubber waste as they can be transformed into useful products very profitably. It has no debt. [www.Sweetgazoil.com](http://www.Sweetgazoil.com)

Tenka Energy manufactures super-thin supercapacitors for powered SmartCards and wearable electronic devices.

The mission of Tenka Energy, LLC is to provide energy storage products with the super-thin form factors (1/3rd to 1/2 millimeter) that are required for use in next generation powered SmartCards and wearable electronic devices. These devices have created a demand for super-thin supercapacitors with higher energy storage capacity and higher pulse current than existing supercapacitors can provide within available form factors. The leading powered SmartCard company, Plastic, Inc., contacted us and provided a Letter of Intent to purchase our supercapacitors in high volumes of “many millions,” consistent with their sales projections. Plastic has provided a Purchase Order for the first 120,000 supercapacitors, contingent on acceptance testing, with pricing agreed upon by October, 2016. We have also been asked by a leading medical equipment supplier for a super-thin power that can operate over an extended treatment period, and by a textile company to produce thin, flexible power sources for wearable sensors. [www.xidex.com](http://www.xidex.com)

Teslatricity is a designer and manufacturer of intelligent, industrial-strength, Internet of Things (IoT) LED lighting products that can self-organize into mesh networks.

Teslatricity is a designer and manufacturer of intelligent, industrial-strength, Internet of Things (IoT) LED lighting products that can self-organize into mesh networks. Teslatricity’s goal is to make cities, buildings, farms and houses smart and energy efficient. Using TeslaSmarts™ artificial intelligence and Internet of Things (IoT) hardware architecture—combined with a unique, highly-efficient LED bulb design—Teslatricity has cracked the code on how to increase lighting energy efficiency while lowering cost in order to compete directly against fluorescent legacy technologies. The company has developed a proprietary distributed manufacturing process called “fractal manufacturing” which enables the company to set up and scale facilities quickly at low cost anywhere in the world. Teslatricity™ plans to revolutionize the $120+ billion lighting industry in the commercial, industrial, agricultural and municipal sectors by offering intelligent LED-based lighting products and services that are smarter, better, more efficient and less
Veros Systems developed ForeSight, a monitoring solution that uses electrical signals to detect upcoming industrial equipment health issues.

Veros Systems specializes in developing advanced software and algorithms that provide insight into the health of electric motors and their driven loads. Veros raised $11,000,000 in 2013 from Austin Ventures, Chevron Technology Ventures, LiveOak Venture Partners and Shell Technology Ventures. In 2015, Siemens and Veros announced a relationship in the industrial service sector. In 2016, Fluke and Veros announced a technology licensing arrangement. Veros samples current and voltage signals to calculate motor performance measurements, such as load, efficiency, torque and speed, and to detect impending equipment health issues on the motor and its driven load (compressor, fan, pump, etc.). www.verossystems.com

Vadxx recycles waste plastic and produces EcoFuels (diesel, naphtha, syngas, etc.).

Vadxx recycles waste plastic and produces high value EcoFuels (diesel, naphtha). There is enough waste plastic feedstock being disposed of in landfill at cost, just in the US, for 1500 Vadxx plants (each plant takes in 25,000 tons/yr plastic and produces 125,000 bbls/yr). At a cost of $20 mil, Vadxx commercial plant #1 (Akron, OH) is expected to begin first production mid-year 2016. Rockwell Automation (Fortune 500) provided the principal process design, engineering and construction of the facility. Vadxx’s business plan is to achieve operating break-even of $20/bbl. See details in the equity prospectus. This is a lower all in oil production cost than almost all traditional “drill bit and refining” fuel production. Vadxx provides far more economically attractive EcoFuel production with better environmental attributes than most traditional oil production. Vadxx is now raising operating capital for worldwide plant implementation (all project financed).

www.vadxx.com

WAVVE produces a cost effective gel, made of shrimp shells, to remove heavy metals and harmful chemicals from water.

WAVVE believes having clean safe water is a fundamental right for every person around the world. WAVVE is a specialty material manufacturer that offers patented technologies that significantly enhance contaminant removal capabilities for existing water filtration systems and membranes. Both the gel and the nanomaterial coating are an effective and cost efficient solution for existing water filters. WAVVE’s first commercial product is the gel technology. This gel is very effective at capturing negatively charged ions through an adsorption process. This technology has a high surface-to-volume ratio, making it very efficient and cost effective. The materials used in these beads are food grade components, making them both a safer and biodegradable option for purifying water. The gel can be regenerated using brine water, and is completely biodegradable. WAVVE’s initial market focus is on the removal of Nutrients (Nitrates, Phosphates) and Heavy Metals (Chromium VI, Selenium) in the municipal and industrial space.

www.tgh2o.com

TGH2o treats environmentally harmful salt water for the use in agriculture irrigation

TransGlobal H2o, LLC (" TGH2o ") is in the business of creating advanced technologies used in the reclamation of saline waters. The company owns a proprietary water treatment technology called The TGH2o T6 Optimizer, which is effective in treating all irrigation waters, including otherwise unusable brackish (saline) surface water and low saline groundwater (" LSGW "). Additionally the T6 Optimizer is in field trials for the treatment of produced and frac water from the oil and gas industry for direct use in agriculture. The Company has concentrated on the agricultural irrigation market due to the extremely high usage of freshwater within that market segment compared to overall global usage. The product is small, light, economic to produce, and easy to build. TGH2o technology works by introducing a direct charge to the water using our range of proprietary frequency combinations, the salt cations+ become disassociated from the water molecules. www.tgh2o.com

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Well Data Labs is a modern web application that helps petroleum exploration and production companies become better at managing, analyzing, and reporting completions data. Petroleum Engineers, managers, engineering techs, and field service crews use Well Data Labs to store and analyze high-frequency completions data that is created during pumping operations. The platform enables instant graphing, analysis, and comparison of well treatment stages across individual and multiple jobs, while simultaneously structuring and organizing completions summary data to be integrated with other internal systems throughout an organization. www.welldatalabs.com

WellHub provides oil & gas operators with an end to end ERP system to run their businesses.

WellHub provides companies with a single centralized location to manage and analyze all of their business data. This allows them to increase operational efficiency by optimizing production, cutting costs and saving the company time. www.wellhubpro.com

We provide thru-tubing tools, service and personnel for the completion, workover and gas storage markets.

We provide professional, reliable and responsive thru-tubing services to the oil and gas industry. Our focus is on training and retaining experienced, professional staff backed by quality engineered and manufactured tools that we own and maintain ourselves to deliver a consistently high level of service. Our strategy is to leverage: • Top-tier tools that perform consistently, reliably and at the highest level, owned and maintained by us • Specialty tools that tackle unique problems, designed in partnership with Ashmin • Experienced professionals committed to superior service quality and delivery • A wide range of service offerings and a variety of tool sizes and styles Our objective is to become a global, diversified brand that is trusted and distinguished as a uniquely professional and innovative field service company. www.workoversolutions.com

Xedia Process Solutions (XPS) develops and applies proprietary, industry-leading technology to solve the energy sector’s water challenges with an aim to protect the environment and improve end user profitability.

Water management is the largest cost per barrel of oil produced and is arguably the most significant environmental liability in energy production. XPS is here to tackle these challenges with a growing technology platform that currently consists of four offerings. Each of these technologies is founded on applying chemical modification to unique media substrates. We then apply process and mechanical engineering expertise to integrate these media technologies with externally available technologies to create holistic solutions that meet our customer’s goals. XPS is helping energy companies mitigate risks of environmental contamination via excursion management and heavy metal removal systems, addressing costs of downtime and capacity constraints within existing infrastructure via modified nutshell media, and creating practical and economical system designs to minimize energy consumption and maximize environmental sustainability. www.xediaprocess.com
Testimonials

Feedback from Attendees: 2013-2015 Rice Alliance Energy Technology Venture Forums

*10 out of 10... thx for all your hard work*

*Superb host - Mr. Burke. Enjoyed his style and interactions. Technical help was also very good and prompt - Thanks to Sam! Please make the presentation slides for the KeyNote addresses available on your website."

*I am not sure it can be improved.... It is probably one of the more seamlessly run event I have attended."

*Excellent organization - like clockwork!*

*The management of the event in general. MOST EXCELLENTLY WELL ORGANIZED !!*

*Hats off again to the Rice Team."

*Keep the team that put this together in place."

*Great program as usual."

*There was a lot of energy in the room. I was pleased that the doldrums due to low oil price did not overwhelm the event and that the enthusiasm seemed high."

*Great grouping of people- had the movers and shakers!*

*Great quality of deal flow, excellent turnout/networking opportunity*

*Able to make numerous, relevant contacts efficiently and economically-- everyone wins*

*Great insight regarding products potentially coming on the market."

*Learn ed about which issues are being addressed by new technology."

*Logistics were great and breakout meeting topics were very pertinent*

*"It was great! You have it quite hard if you'd like to improve the level next year"

*As always, I gained insight into the current directions in technology development. These meetings are also stimulate creative thought."

"Everything I attended was excellent."

*Fantastic program once again that continues to grow in quality and relevance."

---

14th Annual Energy and Clean Technology Venture Forum

Thursday, September 15, 2016

8:00 am - 6:30 pm

McNair Hall, Rice University

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bp
"Gold Standard as usual."

"Very well organized."

"You always do a fantastic job."

"I thought the speakers were fantastic."

"I made contacts in two days that would have taken me months if not longer to make on my own."

"Everything was right on schedule and well organized."

"Great value, very educational, and very beneficial!"

"Great exposure to some very interesting startup ideas."

"A great way to hear a lot of ideas in a short period of time."

"The forum is a valuable networking opportunity with the Houston energy startup community and early stage investors and companies."

"Overall was very good. All I can really say is MORE MORE MORE, please!"

"Great connections - thanks!"

"Networking is excellent."

"High quality all around."

"Great event - most of the minor issues were due to the solid attendance and high interest."

"Was nice to have two different tracks and make the agenda more interactive."

"Lots of potential deals."

"Timing of pitches was good - kept the day moving and on time."

"Overall quality of preparation and presentations was very good."

"Insight into how new companies and new technologies can make headway in the energy industry."

"I've been coming for almost 10 years, and it continues to evolve in a positive fashion."

"You put on a great meeting - keep it up."

"The format worked very well."

"The forum was well-organized as it always is."

"Everything ran smoothly."

"All went smoothly and on time. Really liked the Office Hours."

"Educational talks and company presentations a good mix."

"Great attendees and speakers."

"The split made sense. The auditorium was geared towards investors and [Room] 116 was more for entrepreneurs."

"Splitting the event into two separate venues was smart.…. I am not an investor, so it was good to have a very relevant alternative."

"Having two sessions running simultaneously allowed for the attendees to choose topics."

"The second track in [Room] 116 were all very good."

"I liked the side sessions - and would suggest to continue."

"Diverse representation from the entrepreneur, VC, corporate, and academic communities."

"Excellent opening presentation and disciplined time keeping."

"Really liked the perspective of both the panel of energy focused VC investors as well as the keynote by Sledzik of Energy Ventures. Important to highlight firms and individuals with deep sector experience on both the operating and financing fronts."
"I learned some trends that will help us refine our strategy."

"Appreciation of trends in technology development plus awareness of specific opportunities. The mix of keynotes plus company presentations was very good as always."

"Learned quite a lot about venture capital processes."

"Company presentations were better this year. Village Capital timed presentations went extremely well. The timed presentation concept is a good model."

"Really enjoyed participating in panel, lots of questions and wish we had more time!"

"Liked how company pitch presentations were limited to their times."

"Office Hours is probably the most useful event in the Houston energy-focused entrepreneurial community."

"Office hours were great - very good set of companies this year, some really interesting stuff."

"The office hours were great. I liked the speed dating style 10 minute meetings. This could have lasted longer so that we could meet more companies."

"Good flow, good timing, great facility."

"Well organized and structured event. Interesting teams."

"Very good networking opportunities."

"Brought in more conventional oil & gas improvements; this will remain the "heart" of the energy business for a long time!"

"All excellent, thank you!!"

"Overall, everything was very impressive."

"Great set of people, and companies. Good tempo to the events, so never a dull moment."

"Very good flow--- keeping things moving at a good pace. Great companies overall."

"Connected with several potential investors and strategic partners."

"Several new networking connections and leads."

"Networking."

"I am doing due diligence on two companies and got to see what kind of traction they got at the event and got to talk to other investors."

"As newcomer in Venture world, the forum gave me the opportunity to meet with key players of Upstream O&G Venturing."

"It was good have exposure to venture capital, investor and other entrepreneur's in a fairly open forum with good social interaction."

"I made some great contacts and learned some interesting advice from the keynote speakers."

"Great networking, and presenters!"

"Great networking opportunity."

"A valuable learning experience and on top of it all getting direction for moving forward with my own venture plans."

"Contacts to help my company and ideas from the presentations."

"The panels were definitely a highlight. Great topics, speakers, formats."

"Corporate investor panel advice was on point"

"Presentations from the companies were better than most years."

"Company presentations were short, succint, and very well choreographed."

"High quality companies and high quality investor panels."

"The investor panels were especially helpful."

"Very good selection of projects."

"Exposure to the new developments and startups in energy sector."
"Great survey of technologies and business models that are hot now. Preview of new products."

"I learned a lot about entrepreneurship, both from the viewpoint of investors as well as entrepreneurs themselves."

"I was able to source several new potential investment ideas for funding."

"I made contacts in two days that would have taken me months if not longer to make on my own."

"Met several new companies that I can help. Reconnected and visited with investors and CEOs that."

"Opportunity to meet new businesses."

"Networking and learning about cutting edge technology."

"Networking with VC's and potential prospects."

"Potential investments."

"Gained insights into the issues that matter most for investors and corporate venture investors."

"Learned about new technology trends and met new players in energy investment."

"Insight on potentially promising technologies."

"Access to emerging technology trends."

"Great job on educating, directing, facilitating and connecting entrepreneurs in various fields."

"These are very well run meetings. I always enjoy them! Keep up the good work"

"Great effort, well organized and administered."

"Keep up the good work - great event overall"
Venture Forum Speakers

Speaker information to come

14th Annual Energy and Clean Technology Venture Forum
Thursday, September 15, 2016
8:00 am - 6:30 pm
McNair Hall, Rice University

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<th>Quick Facts</th>
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<th>Company Spotlight</th>
<th>Earned Excellence</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 1000 companies have benefited from participation in Rice Alliance Technology Venture Forum programs</td>
<td>Jesse H. Jones Graduate School of Business  George R. Brown School of Engineering  Wiess School of Natural Sciences</td>
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</table>
# Venture Forum Participating Investors

2016 participating investors, venture capital, and industry participants include the following:

<table>
<thead>
<tr>
<th>32 Degrees Capital</th>
<th>Lime Rock Partners</th>
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<tbody>
<tr>
<td>Altira Group</td>
<td>May River Ventures</td>
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<tr>
<td>BADR Investments</td>
<td>Mercury Fund</td>
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<td>Bandgap Ventures</td>
<td>NGP Energy Technology Partners</td>
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<tr>
<td>Baker Hughes</td>
<td>North Energy Ventures</td>
</tr>
<tr>
<td>Black Bay Capital</td>
<td>North Texas Angel Network</td>
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<tr>
<td>BP Ventures</td>
<td>OTM Consulting</td>
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<tr>
<td>Cameron</td>
<td>Palmetto Investments</td>
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<tr>
<td>Chevron Technology Ventures</td>
<td>Renewable Tech Ventures</td>
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<tr>
<td>Comerica – Technology and Life Sciences</td>
<td>Repsol Energy Ventures</td>
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<td>ConocoPhillips Technology Ventures</td>
<td>Saudi Aramco Energy Ventures</td>
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<tr>
<td>Cypress Growth Capital</td>
<td>Schlumberger</td>
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<tr>
<td>Dow Chemical Company</td>
<td>Shell Technology Ventures</td>
</tr>
<tr>
<td>EES Ventures</td>
<td>Square 1 Bank</td>
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<tr>
<td>Energy Innovation Capital</td>
<td>Statoil Technology Invest</td>
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<tr>
<td>Energy Ventures</td>
<td>Sumitomo Corp</td>
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<tr>
<td>GE Energy Ventures</td>
<td>Triangle Peak Partners</td>
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<tr>
<td>Houston Ventures</td>
<td>TIE Houston</td>
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<td>Hunt Energy</td>
<td>Transocean</td>
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<tr>
<td>Independence Equity</td>
<td>Viking Ventures</td>
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<tr>
<td>Quick Facts</td>
<td>Recent Speakers</td>
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<tr>
<td>Houston’s Greatest Economic Development Ally – Awarded by the Greater Houston Partnership – 2008</td>
<td>Jesse H. Jones Graduate School of Business George R. Brown School of Engineering Wiess School of Natural Sciences</td>
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</tbody>
</table>

Janice and Robert McNair Hall
P.O. Box 2932-MS 531
Houston, Texas 77252-2932

Important Notes and Frequently Asked Questions
for Investors and Speakers

Contact

Sam Mason, MBA
Program Manager, Energy and Clean Technology Venture Forum
Rice University, Rice Alliance for Technology and Entrepreneurship
Email: tvforum@rice.edu or Cell Phone: 713-632-4130

Investor/Industry Office Hours (“speed networking”) - Wednesday, September 14, 2016

- If you are not participating in Office Hours, please skip to the next section (The Forum).
- WHEN: Office Hours happens on Wednesday, September 14 -- the day before the Forum.
- Office Hours runs 2:00 PM to 4:30 PM. Please arrive at least 15 minutes before your first scheduled meeting. Dress is business casual. We also encourage you to join us for a networking lunch at 1:00 PM.
- Here is the full Office Hours Schedule:
  - 1:30 PM - 2:00 PM: Registration
  - 2:00 PM - 2:30 PM: Informal Networking & Refreshments
  - 2:30 PM - 4:30 PM: Office Hours
- Unlike the Forum, Office Hours takes place in the Grand Hall at the Rice Student Center on the Rice University campus, just across from the Jones Graduate School of Business (McNair Hall). Map and driving directions to McNair Hall are below.
- HOW:
  - About one week prior to Office Hours, we give the participating investors and industry leaders a Company Directory of the participating start-ups along with the summary provided by each.
  - Investors select which companies they would like to meet, and we create the meeting schedules to suit their requests. It is helpful to us if each investor provides their top 10 choices, with 2-3 alternates, in the event the first choices are not all available. By Tuesday (Sept. 6) at Noon CDT, please submit your company selections to Sam Mason at tvforum@rice.edu
  - A few days prior to Office Hours, you will receive your meeting schedule.
  - Each representative from industry or from an investment firm will have a stationary table at the event, where companies will come to you, every 10-12 minutes. If you and your company or firm have 1 table, you can meet with 10 startup companies. If you and your company or firm have 2 tables, you can meet with 20 companies.
The Forum - Arrival Times and Event Times on Thursday, September 15, 2016

- We recommend that you arrive by 8:00 AM. A light continental breakfast will be served at the registration/networking reception from 7:30 AM to 8:30 AM.
- The event will start promptly at 8:30 AM in the Shell Auditorium. We recommend you arrive early to be able to get the seat you desire.
- You can sit anywhere in the Shell Auditorium except where there is a name tent card (used for speakers and company presenters at the front of the auditorium). There also is balcony seating available upstairs.
- You should plan to attend from 8:30 AM to 5:00 PM for the program, followed by the Company Showcase and Networking Reception from 5:00 PM to 6:30 PM.

Frequently Asked Questions

Q: What is the Technology Venture Forum?
The Rice Alliance Technology Venture Forums are some of the largest technology venture forums in North America where emerging technology companies showcase their new ventures in front of a diverse audience. The Rice Alliance holds three Technology Venture Forums a year - Energy and Clean Technology; Information Technology and Web; and Life Science. For more information, visit: www.alliance.rice.edu

Q: When and where does the Energy & Clean Technology Venture Forum take place?
Date: Thursday, September 15, 2016
Time: 7:30 AM - 8:30 AM: Registration, Breakfast and Networking
      8:30 AM - 5:00 PM: Forum
      5:00 PM - 6:30 PM: Company Showcase and Networking Reception
Place: McNair Hall - Shell Auditorium (see driving directions below)
Rice University
6100 Main Street
Houston, TX  77005
Map: http://www.rice.edu/maps/maps.html

Q: How many people attend the Energy & Clean Technology Venture Forum?
The average attendance for this event is around 500 - 600 people.

Q: What is the audience profile?
Members of the audience include investors, venture capitalists, industry representatives, business leaders, advisors/mentors, service providers, entrepreneurs and Rice University staff and students.

Q: Where do I sit in the Auditorium?
If you are speaking, you will have an assigned seat in the front of the auditorium during your session, and a name tent with your name on it. Please sit behind your name tent. Otherwise, at other times of the day, feel free to sit wherever you wish.

Q: What about overnight lodging?
The following Rice University link provides contact information for hotels located within 5 miles of the campus: http://explore.rice.edu/explore/Hotel.asp
Q: What if I need a taxi?
Yellow Cab offers a service that can be ordered in advance or by calling 713.236.1111. When placing an order for either drop-off or pick-up, please use the following Rice address: Rice University - Ley Student Center (circle drive), 6100 Main Street, Houston, TX 77005-1827. However, it may be easier to instruct the cab to take Entrance 20 off Rice Blvd and drive just past the second stop sign. The Ley Center will then be on the left, McNair Hall (Forum location) on the right.

From or to local airports, the estimated fares are:
- Bush Intercontinental Airport (IAH) $60.00 + tip ~ 45 minutes
- Hobby Airport (HOU) $38.50 + tip ~ 25 minutes

Q: If I drive, where do I park on campus?
The most convenient parking lot is the underground Central Campus Garage located beneath McNair Hall. The fee for parking in this garage is $1.00 for each 1/2 minutes, with an $11.00 daily maximum, all done via credit card or debit card. ** Note: this garage will fill up during the day, and in order to get a parking spot, you will need to arrive early. Also, there are no in-and-out privileges for this garage. **

Directions to the Central Campus Garage:
- From Rice Blvd, use Entrance 20 as the closest entrance to the building.
- At the second stop sign, turn right. McNair Hall will be on your left.
- Enter the parking garage by turning left at the end of the building.
- For more information about parking, the Rice University Parking Office may be reached at 713.348.2020.

Q: How do I get to Rice University?

From Bush Intercontinental Airport (IAH)
- From IAH’s Terminal Road, follow signs to US 59 South.
- Go south on US 59 approximately 25 miles and exit at Greenbriar.
- Turn left under US 59 and follow Greenbriar to the light at Rice Blvd.
- Turn left onto Rice Blvd. Rice; campus entrances will be on your right.
- Turn right into Entrance 20 and follow to the second stop sign.
- Turn right at second stop sign. McNair Hall will be on your left.
- Turn left into Central Parking Garage located beneath McNair Hall.

From Hobby Airport (HOU)
- From Hobby Airport, exit onto Broadway and follow signs to I-45 N.
- Proceed north on I-45 approximately 6 miles to US 59 South.
- Proceed south on US 59 approximately 3 miles and exit at Greenbriar.
- Turn left onto Rice Blvd; campus entrances will be on your right.
- Turn right into Entrance 20 and follow to the second stop sign.
- Turn right at second stop sign. McNair Hall will be on your left.
- At the end of the building, turn left into Central Parking Garage located beneath McNair Hall.
From I-45 north or south
• Proceed north or south on I-45 and follow the signs to US 59 south.
• From US 59 south on US 59 and exit at Greenbriar/Shepherd.
• Turn left on Greenbriar and proceed south until you reach Rice Blvd.
• Turn left on Rice Blvd; campus entrances will be on your right.
• Turn right into Entrance 20 and follow to the second stop sign.
• Turn right at second stop sign. McNair Hall will be on your left.
• At the end of the building, turn left into Central Parking Garage located beneath McNair Hall.

From US-59 north or south
• Proceed north or south on US 59 and exit at Greenbriar/Shepherd.
• Turn left on Greenbriar and proceed south until you reach Rice Blvd.
• Turn left onto Rice Blvd; campus entrances will be on your right.
• Turn right into Entrance 20 and follow to the second stop sign.
• Turn right at second stop sign. McNair Hall will be on your left.
• At the end of the building, turn left into Central Parking Garage located beneath McNair Hall.

From downtown Houston
• Proceed south on Fannin Street until you reach Sunset Blvd.
• Turn right onto Sunset Blvd. and continue through the traffic light, stay to your left.
• Campus entrances will be on your left; turn left into Entrance 20 and follow to the second stop sign
• Turn right at second stop sign. McNair Hall will be on your left.
• At the end of the building, turn left into Central Parking Garage located beneath McNair Hall.

Q: Where do I find a Rice University Campus Map?
www.rice.edu/maps/

Q: Where do I find additional information about the Rice Alliance?
www.alliance.rice.edu

Q: What if I have additional questions?
Contact Sam Mason at tvforum@rice.edu or 713.632.4130.