



# PIGGING PRODUCTS & SERVICES ASSOCIATION

*An international trade association serving the pipeline industry*

30th Edition

## Buyers' Guide & Directory of Members 2018 – 2019

Pigging Products and Services Association  
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# PIGGING PRODUCTS & SERVICES ASSOCIATION

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The Piggings Products and Services Association (PPSA) was founded in 1990 by Jim Cordell and now has over 120 members, from 20 countries representing the piggings industry throughout the world.

The Association is entirely funded by its members through their annual subscription fees. Its aims are, "To promote the knowledge of piggings and its related products and services by providing a channel of communication between the members themselves, and with users and other interested parties".

PPSA plays a major role in providing information and sourcing equipment and services, for pipeline operators and the industry generally and responds to hundreds of enquiries each year.

The PPSA web site enables visitors to source the products and services they need quickly and easily and provides a link to PPSA's technical information service.

PPSA runs seminars and training courses on piggings, sponsors lectures and meetings about the subject and supports relevant conferences.

**Full Members** are companies manufacturing or marketing piggings products and services.

**Associate Members** are companies connected with the industry, e.g. operators, suppliers and allied industries.

**Individual Members** are anyone with an interest in piggings.

For further information, technical enquiries, or to find out how to join the Association please contact:

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<https://ppsa-online.com/subscriptions>

# WHY PIG A PIPELINE?

It is generally agreed that a pipeline should be pigged, but the reasons for doing so are not always fully appreciated. This may result in improper pigging programs and/or the use of the wrong type of pig and this could have an adverse effect on the pipeline's operating and maintenance costs.

A pipeline is arguably the most efficient method yet devised for transporting fluids – whether gases or liquids.

Its relative efficiency though, depends upon two fundamental requirements:

1. It must operate continuously.
2. The required throughput must be obtained with the least capital investment and the lowest operating costs.

Utility pigs and In Line Inspection tools ('intelligent/smart pigs') play a major role in both obtaining and maintaining these 'two fundamentals':

1. They help to ensure continuous operation by:
  - removing any substance which might damage the pipeline process systems
  - helping to prevent the formation of corrosion cells
  - providing timely information of any developing problems
  - providing data on any perceived problems to enable informed decisions to be made
  - providing an alternative to shutting down for statutory periodic testing.
2. They help to ensure maximum efficiency by:
  - removing any debris or foreign matter in the line
  - removing any deposits, either liquid or solid, which might otherwise build up and restrict the flow
  - by monitoring the operating and/or physical conditions of the line.

In short, pipeline pigs help to ensure that the pipeline is constructed properly – and that it stays that way.

Pigging is required during each phase in the life of a pipeline, typically:

#### **During construction**

- i) Removing debris from the line
- ii) Pressure testing
- iii) Commissioning

#### **During operation**

- i) Pipe wall cleaning
- ii) Condensate removal
- iii) Product separation
- iv) Applying inhibitors

#### **For inspection**

- i) To check for damage
- ii) To detect corrosion or cracking
- iii) Leak detection
- iv) Sampling
- v) Line cover and spanning

#### **For general maintenance and repair**

- i) Corrosion inhibition
- ii) Pre-inspection cleaning
- iii) Decommissioning
- iv) Isolation
- v) Recommissioning

#### **During renovation/rehabilitation**

- i) Gel pigging
- ii) Applying in situ coatings
- iii) Chemical cleaning
- iv) Scale removal
- v) Product conversion

#### **Decommissioning**

- i) Product removal
- ii) Inerting

Many pipeliners only resort to pigging when a problem becomes apparent and they have no other choice. Often, this is too late. The damage has been done and a multi-million dollar investment is put at risk. Use of the correct type of pig and a proper pigging program will help to maintain the integrity and optimum efficiency of the pipeline; safeguarding both the environment and the assets of the pipeline owner. The PPSA book: "An Introduction to Pipeline Pigging" will provide guidance in this respect, but if in any doubt, contact should be made with a PPSA member company, who will be pleased to advise.



## PPSA's book, "An Introduction to Pipeline Pigging"

**PRICE:**  
£21.00 UK,  
\$40 US elsewhere  
plus P&P

**CONTACT:**  
[ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)



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Alchemy primarily specialise in gels and sealing materials for offshore and onshore oil industry applications. They provide a range of gels and gel pigs for cleaning, debris removal, dewatering, de-oiling, chemical treatment separation and spool filling for sea-water ingress prevention. Uniquely Alchemy has perfected the manufacture of gels from Kits® and biodegradable gel pigs with low and high temperature stability. All products are environmentally friendly and are approved by CEFAS for use in the North Sea.

Alchemy manufacture and supply high specification sealing products for wellheads, valve and pipeline applications and provide a solution based response to pipeline emergencies for remediation of difficult and sometimes safety critical applications.

## Apache Pipeline Products

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Contact (Sales): Don McNabb

Apache's commitment to quality, service and continual product development provides the industry with "leading edge" technology. Apache Pipeline Products is a major manufacturer of pipeline cleaning and maintenance equipment. The company manufactures a complete range of pipeline cleaners, including foam pigs, mandrel pigs, solid cast urethane pigs and modular all-urethane pigs. Apache also manufactures replacement elements such as discs, scraper cups, conical cups and other auxiliary pipeline accessories.

The patented pig passage indicator, the Apache "pigPRO" is also made at the Edmonton, Canada facility and has been designed to install easily on other manufacturers' existing mounts. The units are available with a variety of signals including visual flag/manual reset, electrical/auto reset, or a visual/electrical combination.

## Applus RTD

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Applus RTD is a world-wide operating provider of Asset Integrity Services with presence in over 35 countries and has over 4000 employees.

The pipeline division is specialized in internal ultrasonic inspections of "unpiggable" pipelines, municipal heating grids, offshore platform risers, SCRs, casings, etc.

Their inspection tools are self propelled, cable operated ultrasonic crawlers measuring internal and external corrosion, remaining wall thickness, geometrical deviations etcetera. Optionally tools can provide 3D routing data.

The Inspection range is for 4" to 60" and lengths up to 17km, providing full circumferential coverage with fixed/rotating transducer head configurations.

Tailor-made pipeline inspection solutions adapted to local circumstances can be developed by in-house R&D.

Additionally technical services on pipeline integrity, reliability and safety can be provided.



**FREE TECHNICAL  
information service**

**Email: [ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)**

**Use our service to source pigs and  
pigging equipment and for general advice  
on the subject.**

**Our members and technical advisers are  
on hand to answer your questions about  
pigging and pipeline integrity.**

## Aubin Group

Unit 1 Castle Street, Castlepark Industrial Estate, Ellon, AB41 9RF, UK

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**E-mail:** peter.foreman@aubingroup.com

**www.aubin.co.uk**

**Contact (PPSA & Sales):** Peter Foreman

Aubin are market leaders in the supply of novel pipeline technologies for use in oil, gas and other types of pipelines.

They offer a full range of pipeline gels and innovative pigs that replace traditional pigs in both piggable, and non-piggable pipelines. The new range of EVO-Pigs are made of non-compressible, deformable materials capable of being launched and received with or without conventional facilities. EVO-Pigs can be used in multi-diameter pipelines with restrictions to 50% of original diameter.

Applications include cleaning, de-oiling, dewatering, debris removal, chemical train separation and spool filling.

With the environment one of Aubin's top priorities, most of their products are certified by CEFAS for North Sea use as Non-CHARMable, OCNS Group E.

They also offer other specialist products for applications such as buoyancy (DeepBuoy), leak sealing (DeepSeal) and insulation (DeepGel).

## BG Technical Ltd

149 Trans Amadi Ind. Lay Out (Opposite Michelin), Port Harcourt, Nigeria

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### BG Technical Ltd

No 8, 29th Street, DDP (Bendel Estate), Ugborikoko Effurun, PO Box 1920, Warri, Nigeria

### BG Technical Inc

12808 West Airport Blvd, #250, Sugar Land, Texas 77478, USA

**Mail:** BGT Inc, PO Box 1867, Sugar Land, Texas 77487, USA

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BG Technical Limited (BGT) is a leading pipeline service company with significant activity in Africa. Areas of specialization are pigging services; project

design and execution, inline inspection service; MFL, Caliper and Impact logger, pipeline commissioning, drying, and nitrogen packing. Other services are chemical cleaning, on-line cleaning in gas pipelines using high volume separators, chemical de-scaling of heat exchangers, HVAC systems, valve servicing/maintenance and supply of launchers/receivers, barrel doors and the like. BGT designs and installs valve interlocking systems for process control and also tamper prevention systems for facility and remote location protection.

A subsidiary company, PPA manufactures various types of pipeline pigs; foam, mandrel, polyurethane systems, and supplies pigging accessories.

## Baker Hughes, a GE company

### Global Headquarters

Pipeline Pre-Commissioning and Maintenance, 2001 Rankin Road, Houston, Texas, 77073, USA

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### Pipeline Inspection

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### For student opportunities

**www.ge.com/careers**

Baker Hughes, a GE company (NYSE:BHGE) is the world's first and only fullstream provider of integrated oilfield products, services and digital solutions operating in over 120 countries. With their reliable range of process and pipeline services, BHGE helps pipeline operators confidently manage their assets, partnering to deliver technology, solutions and expertise for smarter ways of working. The mutual goal – safe operations, asset integrity and enhanced profitability.

Process & Pipeline Services (PPS), a Baker Hughes, a GE business brings together a unique portfolio of:

Pipeline pre-commissioning services: line integrity validation to a variety of pipeline codes; product commissioning; flooding; and cleaning and drying new lines to reduce corrosion, improve efficiency, and maximizing throughput.

Pipeline maintenance services: proprietary chemical products to control corrosion and protect new assets so that operators can reduce costs and meet deadlines; mechanical, chemical, or gel technology cleaning services to help mitigate long-term corrosion; air, vacuum, nitrogen or chemical swabbing to reduce drying time so that operators can get into production

quickly; technology to remove deposits, including wax, liquids, black powder, rust, and millscale to improve efficiency without going offline.

Pipeline inspection and integrity services: advanced inspection technologies (mechanical damage, metal loss, crack detection and mapping surveys), integrity engineering expertise and powerful data management software tools to drive enhanced pipeline safety.

## CDI

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Established in 1982, CDI is the world's foremost leader in non-intrusive pipeline pig tracking, locating, and signaling technology. With UL/CSA, ATEX and IECEX certifications, they have pigging equipment appropriate for any area of the world whether it be onshore, offshore or subsea.

Onshore tracking equipment includes the TRAXALL Pig Location and Tracking System which tracks up to seven different transmitter frequencies simultaneously. For subsea tracking, the new Mantis 820 ROV Tracking System offers multi-frequency detection at depths of up to 3,000m. Both systems detect CDI's X-Series Programmable, Multi-frequency Transmitters or legacy 22Hz frequency transmitters.

Quality, durability and safety are the focus. On-time delivery and exceptional service is the goal of every CDI associate. CDI is an ISO 9001:2015 certified company.

**Come to the  
next PPSA Seminar in  
Aberdeen, Scotland  
7th November 2018  
Visit [www.ppsa-online.com](http://www.ppsa-online.com)  
for more information**

## CEPS a.s.

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[www.ceps-as.cz](http://www.ceps-as.cz)

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**Contact (PPSA):** Dr. Ing Petr Crha, President

CEPS a.s pipeline services and pipeline integrity services experience on high pressure steel pipelines ranges from mechanical and chemical cleaning with proprietary formula cleaning agents, hydrostatic testing with liquids or gaseous mediums, pipeline drying with superdry air or vacuum, nitrogen services, leak detection, manufacturing and installation of repair sleeves and other. CEPS also provides off-line internal inspection of pipeline – propelling of ultrasonic, MFL, TFI and any other inspection tool through the pipeline when the flow of transported medium is insufficient or medium is not available. Their services cover all stages of pipeline life from pre-commissioning and commissioning through regular operational services, integrity revalidation, upgrading, extending the pipeline lifetime, repair and rehabilitation up to pipeline de-commissioning and abandonment.

## China Petroleum Pipeline Inspection Technologies Co. Ltd

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**Contact (PPSA & Sales):** Xiao Yingjie

Founded in 1992, CPPI provides a full range of pipeline services world-wide. They include: pipeline cleaning, inline intelligent pigging (geometry/deformation, mapping, metal loss/corrosion) and fitness for purpose evaluations. CPPI employs specialists in pipeline operation, data analysis and integrity to serve all of its customers and to provide effective and efficient operations.

## Dacon Inspection Services Co. Ltd

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**www.dacon-inspection.com**

**Contact:** Sid Johnstone

Dacon Inspection Services was incorporated in Oslo, Norway in 1979 as a diving and sub-sea inspection company. With their global headquarters in Thailand they specialize in pipeline inspection services and Advanced NDT Inspections.

Dacon increases pipeline performance and reduces maintenance costs with a full suite of services from inline inspection through to risk based inspection regimes and fitness for service evaluations. By tailoring specific solutions to meet your project needs they offer a cost-effective solution to ensuring optimized pipeline performance.

With many years of experience around the world in some of the most challenging work environments they have built the expertise needed to ensure your pipeline is operating at peak performance.

## Dtaic Inspection Equipment Co., Ltd

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Dtaic Inspection Equipment (Suzhou) Co., Ltd, located in Suzhou New District, Jiangsu Province, China, mainly engages in R&D of pipeline inspection tools, inspection services, inspection data analysis and pipeline integrity assessment. It is an advanced pipeline inspection company integrating marketing, equipment R&D, internal and external pipeline inspection, and data analysis. They endeavor to provide pipeline pigging services in such areas as long-distance oil and gas pipelines, urban natural gas pipelines, oil and gas field gathering pipelines and refinery pipeline networks.

The factory integrates R&D, processing, assembly, testing, cleaning and warehousing. Dtaic relies on its professional R&D team, precise manufacturing process,

efficient work flow, strict monitoring service to pursue excellence, serving the global customers in a flexible, high-quality and efficient manner.

## Enduro Pipeline Services, Inc

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### Enduro Canada Pipeline Services, Inc.

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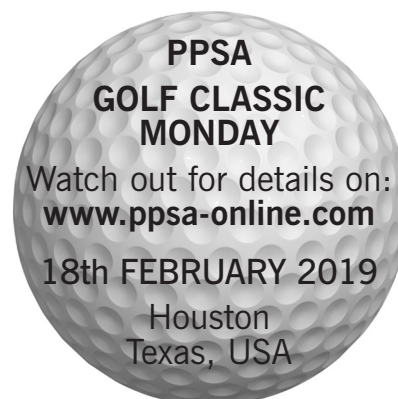
**www.enduropls.ca**

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Enduro Pipeline Services corporate headquarters is located in Tulsa, Oklahoma, USA with additional facilities in Canada. Enduro provides in-line-inspection services, cleaning pigs, tracking equipment, pig passage indicators, tracking and project management services to the pipeline industry.

ILI Services include MFL Multiple Technology tool surveys ranging in pipe sizes 4" through 36". Caliper / Geometry Survey tools ranging 4" through 48" pipe sizes. Enduro also manufactures Pipeline Pigs pipe sizes 2" through 60" in diameter used for cleaning, purging, batching, filling, dewatering, drying and other related applications for on stream and new construction applications. Dual Diameter and Multi-Diameter Pigs, Chemical Cleaning Services, Tracking Services, plus Technical Assistance is offered by Enduro's experienced staff.





## Entegra LLP

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Entegra is an ultra-high resolution MFL/Caliper/IMU, tethered and free swimming, in-line inspection service provider. Featuring nearly 4X the resolution of the current state-of-the-art, Entegra's tools are the shortest, lightest and the most robust available. Highest Resolution. Highest Service. Enterprise Integrity.

## EnviroCal, Inc

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EnviroCal Pipeline Solutions has provided the pipeline industry with inline inspection services and products since 2011, delivering both high and low resolution geometry inspections to operators. The RS Caliper's remote reporting options for both new and existing pipelines provides minimum delivery on data turn around.

In addition to inspection services, EnviroCal offers cleaning pigs and 3 sizes of disposable transmitters for pre ILLI cleaning or maintenance of pipelines.

## Eureka Efektif Sdn Bhd

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[www.eureka.com.my/](http://www.eureka.com.my/)

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Technical know-how and years of experience running cleaning pigs become the pillar of Eureka Efektif's pipeline pigging solution. With an experienced team and

advanced machinery technology, they design, develop, test and produce the solution that will most benefit their client.

Their commitment is to provide total customer satisfaction by delivering superior quality products within the specified time. This is possible by having QA/QC process which is in line with ISO9001:2008 Standard.

They believe after sales service of a product is crucially important and they aim to have a long-term relationship with their customers by providing excellent customer experience.

## GD Engineering

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GD Engineering, an SPXFLOW Brand, is a market leader in the design and manufacture of Pressure Vessel and Pipeline Access Solutions to the oil, gas and process industries.

Their Bandlock™ 2 Closure range provides speed of operation with safety benefits. Used on process vessels e.g. pig traps and filters, size range to 100" diameter, pressures to ASME #2500, with standard butt weld or integral flanged connections.

GD Engineering also supplies very high temperature quick opening closures suitable for pressures up to 1480 psig at 327°C (620°F) using advanced sealing materials.

The Hi-T intrusive and non-intrusive Magalert/Ultralert pig signallers provide reliable pig/sphere passage indication.

Automated multiple pig launchers allow remote multiple pig launching without depressurisation, GD Engineering has available technology to support this application.

The company's quality system is approved to ISO 9001:2015.

## Girard Industries

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**E-mail:** sales@girardind.com

**www.girardindustries.com**

**Contact (PPSA):** David Henry

**Contact (Sales):** Michael Henry

### Girard Industries Europe Ltd

Unit 4, Riverside Place, Paddockholm Industrial Estate,  
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**Contact:** John Simpson

[jsimpson@girardeurope.com](mailto:jsimpson@girardeurope.com)

Founded in 1968, Girard is approaching 50 years of manufacturing high quality pipeline cleaning pigs along with providing unmatched customer service. Girard manufactures the full range of pipeline pigs, including polly-pigs (foam pigs), steel mandrel pigs, solid cast polyurethane pigs, polyurethane spheres (balls) for pipeline and meter proving applications. Girard also manufactures replacement cups, discs and other urethane wear parts for most pigs on the market.

For those applications requiring rubber, Girard supplies Neoprene and Nitrile Pipeline and Proving spheres, and scraper cups and discs in both compounds.

Girard also supplies Hi-T Pigalerts, intrusive and non-intrusive pig detectors, pig tracking equipment, geophones and other related equipment.

Whether you are cleaning, batching, gauging, coating, proving, tracking, testing, or pushing liquids, there is a Girard pig that will work for you.

## GOTTSBERG Leak Detection GmbH & Co. KG

Am Knick 20, 22113 Oststeinbek, Germany

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**www.leak-detection.de**

**Contact (PPSA & Sales):** Stephan With

**Contact (Sales):** Rene Landstorfer

GOTTSBERG Leak Detection GmbH & Co. KG located in Hamburg, Germany is a family owned developer and manufacturer providing a technical leading ultrasonic leak detection pig for pipelines to identify and locate even the smallest defects or illegal tapping spots. Our aim is to provide affordable state of the art technology that is easy to handle and absolutely reliable in performance for sales market as well as leak detection services.

The intelligent pigs are approved for ATEX Zone 0 (Class 1 Div. 1), which means that no regulations concerning explosive atmospheres must be fulfilled. With its specialists GOTTSBERG Leak Detection can look back on nearly 40 years of experience in the field of pipeline integrity.

## Gulf Petrochemical Services & Trading LLC

Post Box 1633, Postal Code 114, Jibroo,  
Sultanate of Oman

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**E-mail:** gpsoman@omantel.net.om

**www.gpsoman.com**

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**Contact (Sales):** Nilesh Shah

Gulf Petrochemical Services & Trading LLC is a contractor commercially registered in the Sultanate of Oman for a number of activities such as engineering, procurement and construction (EPC) contracts for green-field and brown-field projects for facilities and pipelines, infrastructure projects, maintenance contracts for oil & gas facilities, integrity management services of cross country pipelines, pipeline rehabilitation and environmental services.

GPS is responsible for the maintenance of over 90% of oil and gas pipelines currently in operation in Oman. GPS owns one of the biggest fleet of plant and equipment in Oman and directly employs over 5000 multi-disciplined manpower. GPS is also active in UAE, Kuwait, Saudi Arabia and India.

## Halfwave AS

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**Contact (PPSA & Sales):** Willem Vos/Kimberly Ng

Halfwave's Pipeline & Subsea Inspection business is based on the company's proprietary Acoustic Resonance Technology. The services offered have been introduced to provide enhanced information to their clients, ultimately reducing the risk of leaks and increasing the technical safety of pipelines.

Due to Halfwave's unique selected broad-band/medium frequency setup their patented solution provides direct ultrasonic wall thickness measurement in gas pipelines, high inspection performance in bends and inspection in multi-diameter diameter pipelines. Halfwave's ART inspection technology has also shown to provide accurate wall thickness mapping in gas pipelines with wall thicknesses of up to 100mm.

## Halliburton Pipeline & Process Services (HPPS)

Don Facility, Howe Moss Crescent, Dyce, Aberdeen, AB21 OGN, UK

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[www.halliburton.com/en-US/ps/production-solutions/pipeline-process-services/](http://www.halliburton.com/en-US/ps/production-solutions/pipeline-process-services/)

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**Contact (Sales):** Matt Jacobs

Halliburton's vision is to: Deliver tailored engineered solutions and standardized project management to maximize up time and throughput of their customers' pipeline and process assets. HPPS operates worldwide providing a full range of pre-commissioning, commissioning, maintenance and decommissioning services, onshore and offshore.

Services include: flooding, cleaning, gauging, dewatering, drying, conditioning, pipeline inspection, mechanical and gel pigging, flushing, hydrotesting and nitrogen testing.

Additional specialist services include subsea pigging and hydrotesting using their SPHU systems, debris and blockage analysis using their PressurePulse™ technology.

Halliburton also provide nitrogen inerting, helium leak detection, bolt torqueing & tensioning, flange

management, on-site machining, pipefreezing, video inspection, umbilical testing and flushing, electrical and fibre optic cable testing, and a variety of engineering, analysis, equipment and pumping services.

## I2i Pipelines Ltd

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[www.i2ipipelines.com](http://www.i2ipipelines.com)

**Contact (PPSA & Sales):** Steve Banks

i2i Pipelines is a sensor technology company that is pioneering the integration of smart sensors into simple operational pigs for high frequency inspection, the collection of Big Data for enhanced analytics, anomaly monitoring and development of predictive maintenance strategies. Combined with advanced signal recognition software i2i can now apply artificial intelligence to sensor data within hours of tool recovery, highlighting critical problems at an early stage and allowing the in-line tools to monitor integrity and flow assurance conditions over the lifetime of the pipeline.

i2i's Pioneer™ tools deliver an innovative low risk and low cost inspection solution, Inspecting pipelines from 2"- 48", including complex geometry and multi-diameter lines in all production mediums without disrupting production. Pioneer tools can be operated by 3rd party personnel with minimal training, require no specialist facilities and used in pipelines with no prior cleaning.

Below is a brief overview of i2i's in-line tools: Patrol™ pig – designed specifically to target illegal taps in a pipeline; Pioneer™ pig – offers full inspection capability for internal anomalies; Prospector™ pig – can map deposits and wax within the pipeline.



**Visit PPSA's Web Site**  
**[www.ppsa-online.com](http://www.ppsa-online.com)**

**for more information and  
Hyperlinks to Members'  
Web Sites**

# IK Group

## IK-Norway

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Peter.Mahoney@ik-worldwide.com

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## Online Electronics Ltd

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IK Norway, established in 1987, supplies the oil and gas industry with pipeline services and products and is comprised of five departments. PPS – Pigging Products and Services (engineering, supervision, equipment and products for pipeline pigging), Subsea (custom made subsea tools, equipment and operation), Field Services (local pressure test equipment and field support), Pipe Intervention (hot tapping and freeze plugs) and Torque Tension/Instrumentation (bolting services/equipment and calibration of instruments).

IK-UK Ltd, specializes in pigging equipment and plugging products including an extensive hire fleet of certified weld testers, high pressure test plugs and isolation tools. Operating from a modern unit that is capable of manufacturing all products in-house, IK-UK can produce quality pipeline pigging products for both contractors and operators.

Online Electronics Ltd (OEL) design, manufacture and distribute products employed during pipeline pig monitoring, pipeline data communication and logging operations using acoustic, electromagnetic, magnetic and ultrasonic technologies. Products enable pig tracking & signalling, pressure/temperature data logging, gauge

plate condition systems, automated pipeline discharge sampling, ATEX certified products and subsea voltage gradient detection.

OEL has offices in Dubai, UAE; Singapore and Houston, USA.

## IKM Testing AS

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[www.ikm.no](http://www.ikm.no) [www.ikm.com](http://www.ikm.com)  
**Contact (PPSA & Sales):** Jens Bolme  
**Contact (Sales):** Pål Ørke

## IKM Testing UK Ltd

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## IKM Testing Australia Pty Ltd

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**E-mail:** IKMtesting@au.IKM.com  
**Contact:** Natalie Brown

IKM Testing with its approx. 1000 employees is a part of the IKM Group which has 1950 employees. IKM Testing specializes in providing pipeline services to the oil and gas industries. The head office is located in Stavanger, Norway with daughter companies in the United Kingdom (Newcastle and Aberdeen), Canada (St. John's and Halifax and Alberta), Australia (Perth), Singapore, Indonesia (Batam), Malaysia (Kuala Lumpur), Thailand (Rayong), Poland (Gdansk), Brasil (Rio de Janeiro and Serra) and Korea (Busan). IKM has been involved in on-/offshore development projects since 1989. It offers a safe and cost attractive alternative within pipe-/pipeline services including: engineering, commissioning, pressure testing, nitrogen services, pigging, flooding, gel, waxing, drying, preservation, isolation, calibration, chemical cleaning, bolting services, video inspection and hot oil flushing. IKM Testing has a certified Quality Assurance

## In-Line Pigging Solutions Ltd

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T2E 2M7, Canada

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S4N 2S4, Canada

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In-Line Pigging Solutions field services focuses on pipeline integrity management, pipeline operational support and pipeline maintenance support. Their main areas of service include: In-line inspection programs and field execution for liquid and gas pipelines; Pre-inspection cleaning programs; AGM sub-metre survey and pig tracking; Maintenance pigging crews; Integrity dig management and field dig inspection; Pipeline operator support and first call management; Pig sales and pig design.

Whether you need full turnkey project management or one component of their overall service offering, you can trust your project to In-Line Pigging Solutions. They have experience completing hundreds of thousands of kilometers of pipeline inspection and pig tracking throughout Canada.

## Inline Services Inc

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**www.**inlineservices.com

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**Contact (Sales):** Jessica Nichols

Inline specializes in Intelligent Pipeline Cleaning products for pipeline maintenance and has one of the largest inventories of poly foam, foam disc, urethane and mandrel pigs to offer fast delivery on any style and quantities of pigs.

Inline has new technology electronic tracking equipment which includes receivers, geophones, and transmitters. Electromagnetic and geophone receivers are available in the same housing.

Inline's experienced team of consultants can manage day to day pigging operations or design complete

pigging programs. These services for cleaning and proving pipelines prior to ILI runs can prove extremely cost effective.

Inline also provides complete custom-designed Process Pigging Systems, components and packages for the process industry, for both industrial and sanitary applications.

## iNPIPE PRODUCTS™

Gatherley Road, Brompton on Swale, Richmond  
DL10 7JH, UK

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**www.**inpipeproducts.com

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**Contact (Sales):** Mike Saunders (Commercial Manager)

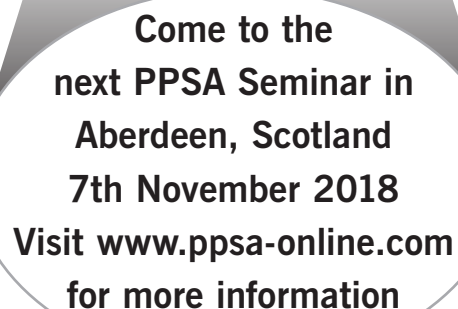
**Contact:** Peter Fretwell (Consultant)

iNPIPE PRODUCTS™ is an acknowledged world leader in the design, manufacture, supply and hire/rental of pipeline pigging, maintenance and testing products for over 30 years.

The company engineers a comprehensive range of products including foam and metal bodied pigs, plugs, flange & internal weld testers, isolation tools, spheres, signallers and launching & receiving systems.

iNPIPE HIRE™ offers one of the largest worldwide hire fleets of isolation tools, high pressure plugs and internal and flange type weld testers up to 42". The company has an extensive range of simple, easy to use tools for pipeline testing and isolation which provide a priceless solution.

The company can also support fast pigging mobilisation requirements with a range of pigs, launchers and receivers. Pig tracking and pig location equipment completes the full turn key for immediate dispatch to anywhere in the world.



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next PPSA Seminar in  
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Visit [www.ppsa-online.com](http://www.ppsa-online.com)  
for more information**

## Intero Integrity Services BV

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**Contact (Sales):** Niek Bruijnesteijn, Serviceline Manager Inspection Services

Intero Integrity provides a complete range of integrated solutions to the oil, gas and petrochemical industries around the world. Through their Pipeline, Inspection, Storage Tank and Industrial Service lines, Intero Integrity assists you in every step of your plant operation, from design and ongoing maintenance to end-of-life, to assure maximum plant integrity and sustainable operation.

Intero Integrity is based in the Netherlands and serves pigging and inspection projects all over the world through its offices in: United Arab Emirates, Saudi Arabia, Malaysia, Australia, United States, Canada, United Kingdom, Germany, Romania, France, Italy, Spain and South Africa.

**Services: Inspection Services:** provides in-line inspection of (non-)pigging pipelines and furnaces including quick scans, full assessments, pre-engineering, mechanical works and mechanical cleaning, gauging, calliper runs, inspection, reporting, XYZ mapping and consulting.

**Pipeline Services:** includes engineering and construction services, pre-, re-, de- and commissioning services, maintenance and operating services and decommissioning services.

**Industrial Services:** offers nitrogen-related services including reactor cooling, nitrogen or helium leak detection, system purging, furnace decoking and chemical cleaning.

**Tank Services:** offers integrated tank storage services including sludge profiling, cleaning, robotic tank bottom inspection and foam inerting.

## Jee Ltd

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**Contact (PPSA & Sales):** Jon Davison

Offering specialist engineering consultancy services, including technical assurance and project management, Jee has a long track record of undertaking pigging and plugging projects worldwide. Jee's services cover all phases of the asset lifecycle from feasibility studies, commissioning pigging and baseline in-line inspections (ILI), through operational cleaning and life-of-field ILI campaigns, to cleaning for decommissioning. Focused on reducing risk and maximising the probability of a successful operation, Jee's engineers are specialists in defining and solving the challenges associated with scenarios such as "unpigging" pipelines, subsea launch/receipt, ultra-deepwater HPHT lines, multi-diameter pipelines and flexible risers.

Jee also offers a range of technical training courses covering integrity management, pigging and plugging, helping build competencies and skills for you and your team.

## Kleiss & Co bv

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**Contact (PPSA):** Leo van Beugen

**Contact (Sales):** Cees de Haard

Kleiss & Co has manufactured and distributed pipeline equipment since 1967. The company provides in-house design, engineering, manufacturing and testing of pipeline pigs for all purposes, from 1" up to 100" and from soft foam up to sophisticated tools for cleaning. CAD facilities, computer and climate controlled manufacturing and process equipment, test facilities guarantee constant quality.

The company provides soft, medium and high density foam pigs, cup pigs, bidirectional pigs, flexible pigs, gauging pigs, brush pigs, magnetic pigs, pipeline spheres, FDA pigs for food and cosmetics, pencil brushes, polyurethane, neoprene, nitril, viton, EPDM and silicone pigs. Kleiss also supplies pig locating

equipment, pig signalers, high friction pigs and ancillary materials for pipeline repair, coating, maintenance and installation.

## Knapp Polly Pig Inc

1209 Hardy St, Houston, Texas 77020, USA  
Tel: +1 713 222 0146 Fax: +1 713 222 7403  
E-mail: knapp@pollypig.com www.pollypig.com  
Contact (PPSA): Brian Harrell  
Contact (Sales): Tim Owen

Knapp Polly Pig Inc., the original manufacturer of the Polly Pig, has been manufacturing pipeline cleaners for over 55 years. The company's product lines, in addition to a full line of urethane foam pigs, include urethane cups (conical and scraper), discs, spheres, and several all-urethane pig designs such as the Nova-cast™, Ultra-Seal™, NOVA™, Polly Tri-Cup™, SUD pig, Ultra-Cast™, Polly-Cast™, Foam Disc, Hand-Launch™, Blackbelt™ and K-Disc™. Knapp also supplies steel mandrel assemblies.

Knapp serves the oil & gas, water & wastewater, chemical & food processing sectors of the piping industry. The company specialises in custom designs and materials to suit all applications. Products are available to be used in adverse cleaning situations, pipe size reductions, long distance pig runs, sour gas lines (with H<sub>2</sub>S present), automatic pigging operations and other special procedures. The products are available in sizes up to 90 inch, and the company offers assistance to pipeline operators in optimising the cost and efficiency of pigging by analysing their current pigging procedures and making recommendations on improvements.

## KTN AS

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KTN AS is a technology company specialized in condition assessments and periodic maintenance of oil and gas pipelines offshore and onshore internationally. KTN is specially well known for their self propelled BiDi tethered tool inspection technology for challenging pipelines. Their key people have approximately 25 years experience each.

Different types of measuring technologies are offered: Ultrasonic wall thickness and crack measurement, (angular beam pulse echo, PA and TOFD, eddy current and others).

All diameter ≥6" and up to 12km in length are inspectable (4" 2019), solutions for up to 24km.

The technology is under a constant development and every year new type of solutions and applications can be offered to the market.

Intelligent Solutions – Inspection of non-piggable pipelines by use of tethered tool technology.

## Limpro Nacional, SA de CV

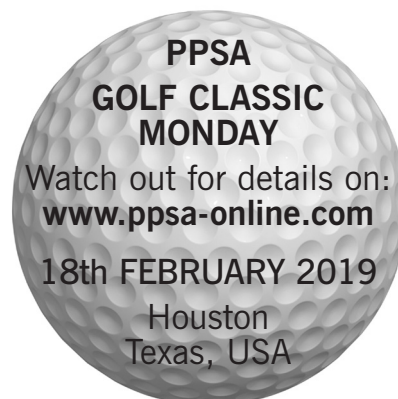
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Limpro Nacional, SA de CV is an ISO 9001:2008 certified company and began manufacturing urethane products in 1987.

Limpro manufactures a full range (2" to 48") of foam pigs, steel mandrel pigs, pencil and flat wire and round steel brushes, urethane cups and discs and solid cast pigs for cleaning, batching and gauging with different configurations for regular and special operations. Replacement parts fit most available pigs in the market.

Limpro also performs complete pigging projects including cleaning, batching, dewatering, pig tracking and complete geometry pig services.

Limpro designs and manufactures special pigs to solve specific problems under special conditions and Limpro also offers pigging related equipment and components such as: tracking equipment, and pig detectors.



# LIN SCAN Advanced Pipeline & Tank Services

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LIN SCAN has been serving the oil and gas industry worldwide providing in-line inspection and integrity support services since 2001.

LIN SCAN certifications include ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004, TS/29001:2007, API Q1, 94/9/EC ATEX Directive, GOST R and CE Marking.

LIN SCAN's core activities include: In-line Inspection services using MFL, TFI, Caliper/Geometry & UT technology. Services including pipeline cleaning, gauging, removing dust (black powder) using cyclones, removing wax, pigging solutions for "un-piggable" pipelines, speed reduction. Supply of pig traps, cleaning pigs & accessories. Pipeline repair services Integrity management support services including FFP, RRR reports. Project management and field execution carried out by professionals certified as per API 1163.

## LTS, LLC

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[www.ltsenergy.com](http://www.ltsenergy.com)

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LTS, based in Houston, Texas, was established in 1992 and is one of the world leaders in the design and manufacture of engineered solutions for high pressure pigging

systems through 20,000psi used onshore and offshore and ultra deep applications. LTS has over 200 HP/HT systems installed around the world and represents 80% of all major GOM high pressure deepwater projects, and is a leader in the industry in pressure classes of 10,000psi and above.

LTS offers their own ClampTec® Closures, integrated barrel fabrication and supply, pigging valves and complete skid packages ranging from 6" through API 60" and through 20,000psi design pressures, used for onshore, offshore and subsea applications through 10,000ft water depths.

LTS Engineering Services include full R&D, FEED, design and detailed engineering featuring 3D solid modeling, piping and structural analysis as well as FEA to assist international operators and consulting engineers worldwide.

## Morken S.A.

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Morken S.A. provides to the oil, gas, mining and energy industry, advanced technological solutions that integrates the segments of asset monitoring, inspections, interventions and repairs, anticorrosion solutions, transport of fluids, corrosion protection, and solutions for power generation and energy efficiency.

## NDT Global GmbH & Co. KG

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Contact (Sales): Ben Bergius

NDT Global is a leading supplier of ultrasonic pipeline inspection and pipeline integrity management. Its state-of-the art inspection fleet provides the entire inline inspection service spectrum for onshore and offshore pipelines worldwide. First run success, best data



quality and rapid report delivery are our key benchmarks. A skilled engineering and project management team, complemented by one of the best data analysis teams in the industry, has inspected and analyzed millions of kilometers of pipelines worldwide. The company has offices in Australia, Canada, Germany, Ireland, Mexico, Spain, UAE, UK and USA.

## National Oilwell Varco (NOV)

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Tel: +1-346-223-4458

E-mail: [midstream@nov.com](mailto:midstream@nov.com)

[www.nov.com/midstream](http://www.nov.com/midstream)

Contact (PPSA & Sales): Mike Hester

With over 65 years of manufacturing closures, as well as providing valves and pumps for the midstream industry, NOV has become an industry leader. Their Midstream division is a leading provider of API 6D valves, ASME "U" stamped quick opening closures and pumps for LACT units to the oil and gas industry. Their products are used throughout the global midstream distribution and transmission markets. These products include their gate valves, ball valves, plug valves, check valves, threaded closure, internal door closures, clamp style closures and progressing cavity pumps. It is their goal to provide safe, quality and reliable products to their customers.

## Oceaneering Asset Integrity AS

PO Box 163, Lonavegen, N-5342 Straume, Norway

Tel: +47 52 91 30 00

E-mail: [ejohnsen@oceaneering.com](mailto:ejohnsen@oceaneering.com)

[www.oceaneering.com/asset-integrity/](http://www.oceaneering.com/asset-integrity/)

Contact (PPSA & Sales): Erik Johnsen

Tel: +47 970 99763

Contact: General enquiries

[ejohnsen@oceaneering.com](mailto:ejohnsen@oceaneering.com)

Oceaneering Asset Integrity AS, is a subsidiary of Oceaneering International which is a global oilfield provider of engineered services and products, primarily to the offshore oil and gas industry, with a focus on deep water applications.

Oceaneering Asset Integrity offers the industry in house developed ultrasonic technologies for external inspection of subsea pipelines and structures. Recent product developments, includes EMAT and subsea digital radiography applications for deep water assets.

Oceaneering Asset Integrity AS also provides the market with tailor made inspection solutions for both piggable and un-piggable pipelines, rigid and flexible pipelines using high resolution ultrasonic scanners and self-propelled pigs. Core inspection applications are based on advanced ultrasonic and visual instrumentation.

## 3P Services GmbH & Co KG

Meitnerstr. 10-12, 49835 Wietmarschen-Lohne, Germany

Tel: +49 5908 2656-0 Fax: +49 5908 2656-11

E-mail: [info@3p-services.com](mailto:info@3p-services.com)

[www.3p-services.com](http://www.3p-services.com)

Contact (PPSA & Sales): Basil Hostage

[sales@3p-services.com](mailto:sales@3p-services.com)

In-Line inspection using High Resolution MFL (Magnetic Flux Leakage), GEO (geometric), DMR (Direct Magnetic Response), XYZ (inertial mapping), SRD (Short Range Distance) and UT (ultrasonic). 3P Services fleet includes more than 300 "live" ILI tools ranging from 2" to 48". There are tools for conventional (free swimming), for bi-directional (pump-in/pump-out), and pull through (tethered) operation. Dual diameter, multi-diameter and combo tools are available on request. Customer applications to inspect pipelines that are considered "difficult to pig" or even "unpiggable" are a speciality of the company.

3P Services provides associated services including feasibility studies, corrosion growth studies of previous inspected pipelines, cleaning, geometric inspection, post-inspection support. The company was founded in 1992, is privately owned and based in the oil fields of NW-Germany.



Visit PPSA's Web Site  
[www.ppsa-online.com](http://www.ppsa-online.com)

for more information and  
Hyperlinks to Members'  
Web Sites

## PBJV Group Sdn Bhd

No 3, Jalan Teknologi, Taman Sains Teknologi 1, Kota Damansara PJU 5, 47810 Petaling Jaya, Selangor, Malaysia

**Tel:** 00 60 3 6143 0000 **Fax:** 00 60 3 6143 0003

**E-mail:** info@pbjv.com.my

**www:** pbjv.com.my

**Contact (Sales):** Kamaruddin Ismail

**Contact (PPSA):** Muhamad Taufik Talaat

Established in 2000, PBJV Group Sdn Bhd carries the Petronas Vendor Development Program award for "precommissioning, commissioning and decommissioning of the pipeline upstream sector", the only such service in Malaysia.

With continuous development of technical personnel and investment on technology equipment and strategic assets, PBJV is set to be an established player in offshore installation contract and pipeline, construction and maintenance activities both locally and internationally.

PBJV has expanded its business to include offshore pipe laying works, fabrication and constructions, repair and maintenance of pipelines and topsides and hook up services.

PBJV has its own 137m mid shallow water pipelay barge to undertake bigger offshore pipe laying activities.

PBJV's business also provides a full spectrum of an EPCC / EPIC services to clients, positioning them to be a "one stop" centre for installation and transportation of pipeline related services.

## Penspen

4th Floor, Central Square South, Orchard Street, Newcastle upon Tyne, NE1 3AZ, UK

**Tel:** +44 191 260 6200

**E-mail:** Newcastle@penspen.com

**www:** penspen.com/

**Contact:** Graham Ballantyne (Newcastle)

Tel: +44 191 260 6236

**Contact:** Ali Alani (Abu Dhabi)

Tel: +971 2 6792526

**Contact:** Houston/Mexico

Tel: +1 713 402 8120

Penspen provides pipeline and pigging technical consultancy services and project management, a focussed capability on integrity management and risk

assessment of onshore and offshore pipelines. Penspen is independent of construction and ILI vendors and provides best practice advice and solutions to pipeline operators, onshore & offshore.

**Pigging services:** Inspection consultancy including: inspection needs assessment; pre commissioning, de-commissioning strategies, engineering assessment; design and remedial works; pig design and specification; tendering; contract management and operational supervision.

**Integrity services:** Integrity assessment; dig verification; repair and rehabilitation, pipeline integrity management systems; risk, reliability and RBI; assessment of geohazards; Pipeline Defect Assessment Manual (PDAM); FEA, fracture and fatigue; specialist training.

Penspen has 70 technical specialists experienced in operations, fieldwork and integrity assessment.

The Penspen Group is an established international engineering company providing; pipeline routing and design consultancy; construction support; asset management and O&M services.

## Pigs Unlimited International, Inc

23802 FM 2978, Suite C-1, Tomball, Texas 77375, USA

**Tel:** +1 281 351 2749 or 800 578 7436

**Fax:** +1 281 351 4658

**E-mail:** sales@pigsunlimited.com

**www:** pigsunlimited.com

**Contacts (PPSA & Sales):** Allen Pennington and John Pennington

Pigs Unlimited International, Inc. supplies pipeline pigs, pigging components and equipment, and provides consultancy services. Its manufacturing division produces a full line of pigs from ½"-96" including foam pigs, steel mandrel pigs (cup, disc, brush, blade), and solid cast pigs (sphere, cup, disc). These pigs are utilized for various functions including drying, batching, cleaning, dewatering and displacement. It also offers pigging related components and equipment, including launchers, receivers, pig detectors, trackers, pigging valves, diverters, and closures.

It also offers customer designed classes for educating clients and employees that may be new to pigging operations, or are needing to implement new pigging programs.

## Pigtek Limited

Unit 2, Langham Park, Mansfield Road, Corbriggs,  
Chesterfield, Derbyshire, S41 0GG, UK

**Tel:** +44 1246 850220 **Fax:** +44 1246 856191

**E-mail:** sales@pigtek.com

**www:** pigtek.com

**Contacts (PPSA):** Ralph Hyslop & Richard Kershaw

**Contacts (Sales):** Ralph Hyslop & Richard Kershaw

Pigtek design and supply specialist high performance pigging equipment and services for applications where proprietary "off the shelf" equipment will not perform efficiently.

Pigtek products and services have evolved from years of on-site international pigging experience.

Products are available on a sale or hire basis and include: dual/multi diameter pigs, heavy-duty magnetic cleaning pigs, heavy duty brush pigs, HDR de-scaling pigs, advanced by-pass pigs, pig tracking and location equipment.

On-site services include pipeline proving and gauging, advanced pipeline cleaning for flow improvement, pre-inspection proving and cleaning, pig tracking, stuck/lost pig location / removal, training / supervision during pigging operations.

Development services include specialist pig design, pig verification trials, feasibility studies, developing pigging procedures. Full technical support is assured and Pigtek are certified to ISO 9001:2015.

## 4Pipe-Hidropig

Av. Félix Galvão Cruz Simões, 375 - Industrial Feital,  
Pindamonhangaba / São Paulo, Brazil, 12441-275

**Tel:** +55 12 2126-9813

**E-mail:** comercial@4pipe.com.br

**www:** 4pipe.com.br

**Contact (PPSA & Sales):** Thiago Rezende

4PIPE-HIDROPIG is a major manufacturer of pipeline cleaning pigs in South America.

They are also a pipeline services provider and an agent for international companies on pipeline products and services business.

They have more than 30 years' experience of providing high performance products and services with proven quality and great results. From 2" to 48" - Foam pigs, mandrel pigs and solid cast pigs - Discs, brushes and cups.

## Pipeline Cleaners Inc

PO Box 157, 1823 33rd Street, Fort Madison,  
IA 52627, USA

**Tel:** +1 319 372 2051 **Fax:** +1 319 372 7091

**E-mail:** tvanaken@plcpigs.com

**www:** plcpigs.com

**Contact (PPSA):** Terry W. Van Aken

**Contact (Sales):** Bob Doty (Sales Manager)  
bdoty@plcpigs.com

**Contact (Sales):** Heath Hawthorne (Outside Sales)  
sales@plcpigs.com

Pipeline Cleaners began over 125 years ago as a boiler and flue brush manufacturer. Through the pursuit of new markets, the company evolved in to the pipeline industry. Today, with more than 80 years of experience in making brushes and steel mandrel bodies for the pipeline pigging industry, Pipeline Cleaners is well known as a leader in both industries. PLC continues to strive to improve quality and efficiency. PLC now has two fully automated pipeline brush machines. Steel mandrel pigs can be custom built to meet or exceed customers' requirements.

### Pipeline Pigging & Integrity Technology

4th Edition, 2013

The latest data on  
pigging and inspection tools,  
views, and practical solutions

Collected and edited papers  
from PPIM conferences and other  
sources 2007-2012

**www.clarion.org**  
**www.tiratsootechnical.com**

**BUYERS' GUIDE**

Note: Inspection companies can generally arrange for the pipeline to be cleaned/prepared prior to inspection.

- Manufacturer and/or Service Company
- ▲ Distributor

INDUSTRIAL PIGGING	CONSULTANCY SERVICES	IN LINE INSPECTION SERVICES	PIPELINE PIGGING SERVICES	PIPELINE PIGGING COMPONENTS AND EQUIPMENT	PIPELINE PIGS	Company Name	
						Manufacturer and/or Service Company	Distributor
							Alchemy Oilfield Services Ltd
							Apache Pipeline Products
							Appius RTD
							Aubin Group
							BG Technical Ltd
							Baker Hughes, a GE company
							CDI
							CEPS a.s.
							China Petroleum Pipeline Inspection Tech. Co Ltd
							Dacon Inspection Services Co. Ltd
							Dialic Inspection Equipment, Co., Ltd
							Enduro Pipeline Services, Inc
							Entegra LLP
							EnviroCal, Inc
							Eureka Efektif Sdn Bhd
							GD Engineering
							GOTTISBERG Leak Detection GmbH & Co KG
							Girard Industries
							Gulf Petrochemical Services & Trading LLC
							Halfwave AS
							Halliburton (Pipeline & Process Services)
							I21 Pipelines Ltd
							IK-Group
							IKM Testing AS
							In-Line Piggig Solutions Ltd
							Inline Services Inc
							iNPIPE PRODUCTS™
							Intero Integrity Services BV
							Jee Ltd
							KTN AS
							Kleiss & Co. bv
							Knapp Polly Pig Inc
							LIN SCAN Advanced Pipeline & Tank Services
							LTS, LLC
							Limpro Nacional, SA de CV
							Morken S.A.
							NDT Global GmbH & Co. KG
							Oceaneering Asset Integrity AS

**FREE TECHNICAL INFORMATION SERVICE**  
 Contact our members and panel of advisers to answer your questions about pigging and pipeline integrity at:  
[ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)

INDUSTRIAL PIGGING	CONSULTANCY SERVICES	IN LINE INSPECTION SERVICES	PIPELINE PIGGING SERVICES	PIPELINE PIGGING COMPONENTS AND EQUIPMENT	PIPELINE PIGS	Company Name	
						Manufacturer and/or Service Company	Distributor
							3P Services GmbH & Co KG
							PBJV Group Sdn Bhd
							PSI – Pipeline Services International GmbH & Co KG
							PT. Tonsoo International
							Penspen
							Pigs Unlimited International, Inc
							Pigtek Limited
							4Pipe-Hidropig
							Pipeline Cleaners Inc
							Pipeline Equipment, Inc
							Pipeline Innovations Ltd
							Pipeline Piggig Products Inc
							Pipeline Services LLC (PLS)
							Pipesurvey International CV
							Pipetech Corporation Ltd
							Propipe Limited
							Q-Inline
							Quest Integrity Group, LLC
							RAS Rohrleitungs- und AnlagenService GmbH
							ROSEN Group
							Reinhart Hydrocleaning SA
							Romistar Sdn Bhd
							ROUGE Pipeline & Process Services LLC
							STATS Group
							Sofield Analytic Pipe Asia SDN BHD
							Sriram Foams (P) Ltd
							T. D. Williamson
							TRAPIL
							Tianjin Greensing Pipeline Technology Co., Ltd.
							Topline Limited
							Tracerco Ltd
							Trans Asia Pipeline Services
							Tulsa Valve
							VP Engineers
							Vee Kay Vikram & Co. LLP
							WSG Industrial Services b.v.
							WeldFit Corporation

**BUYERS' GUIDE**

[www.ppsa-online.com](http://www.ppsa-online.com)

# THE PPSA BUYERS' GUIDE

A breakdown of the products and services provided by the Members will be found on the previous three pages. The following is an explanation of some of the less well known terms and items which are listed:

1. "Utility pigs" are used for a variety of purposes such as internal pipe wall cleaning, condensate removal, water fill for pressure testing, gauging, dewatering, drying, commissioning etc. There are many different types available for use in uni-directional, bi-directional and multidiameter pipelines. Utility pigs have been divided into the four different forms in which they are made:
  - a) "Mandrel pigs" are assembled from a number of component parts, and spare parts are available.
  - b) "Foam pigs" are moulded from polyurethane foam with various configurations of solid polyurethane strips and/or wire bristles, studs etc. permanently bonded to them.
  - c) "Solid cast pigs" are moulded in one piece – usually from polyurethane.
  - d) "Spheres" are hollow balls, usually made from polyurethane and inflated to the optimum diameter with water/glycol.
2. "Hyperbaric spheres" and "High DP pigs" are used mainly on subsea pipelines as a temporary plug while the two ends of the line are welded together.
3. "Pig signals" indicate the passage of a pig. Intrusive types are mechanically actuated via a trigger or plunger which protrudes into the line. Non-intrusive and subsea signals may employ magnetic, ultrasonic or radioactive techniques.
4. "Pig locators" are used to locate a pig which may or may not be in motion.
5. "Sphere flow tees" are specially designed to allow a sphere to pass an offtake without stalling. They may be called simply "Sphere tees" or "Flow tees".
6. "Sphere lifters" are usually in the form of tongs or suction devices.
7. "Pig suspension systems" are designed to keep a pig in the centre of a pipeline. They usually comprise spring-loaded skids or wheels and are used for inline inspection tools, or other relatively heavy pigs, and in multi-diameter pipelines.
8. There are two main methods of finding metal loss (corrosion): Magnetic flux leakage (MFL) and ultrasonics (UT). Another emerging technology involves the use of eddy currents.

*Further, more detailed information on pigs and pigging will be found in the PPSA book entitled: "An Introduction to Pipeline Pigging". Contact [ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com) for details.*



## PIGGING PRODUCTS & SERVICES ASSOCIATION

*Pipeline Pigging Seminar on*

*"Commissioning and Operational Pipeline Pigging" in Aberdeen*

- **Tutorials – 6th November 2018**
- **Evening Reception – 6th November 2018**
- **Exhibition – 6th/7th November 2018**
- **Technical Paper Presentations – 7th November 2018**

*At the time of going to print the programme was not yet finalised but full details will be available soon.*

*To find out more and book your place, please contact the Secretary at:*

**PPSA, PO Box 30, Kesgrave, Ipswich, Suffolk, IP5 2WY, UK**

**Tel: +44 1473 635863 Fax: +44 1473 353597 E-mail: [ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)**

**[www.ppsa-online/seminar.php](http://www.ppsa-online/seminar.php)**

**An International trade association serving the pipeline industry**

## Pipeline Equipment, Inc

8403 S 89th West Avenue, Tulsa, Oklahoma 74131, USA

**Tel:** 918-224-4144 **Fax:** 918-224-4455

**E-mail:** Jack@PipelineEquipment.com

**www:** Pipeline-Innovations.com

**Contact:** Jack Lollis

**Contact (Sales):** Natalie McBride

Pipeline Equipment, Inc. provides quality equipment for the energy and other industries. Products include: Twinlock Quick Opening Closure, pigs and spheres, launcher and receiver barrels and systems, automated systems for pigs and spheres, mainline valve assemblies, liquid and gas measurement equipment, pressure and flow control skids and station buildings including EGM, analyzer, MCC, and control. The Machine Division provides closures and custom machining. The Extrusion Division provides single and multiple outlet headers, reinforcing weld saddles, full encirclement saddles, drum drilling, and other custom extruded products. PEI also has a full-service blasting and coating division. PEI is an ASME and ISO 9001 certified facility with offices in Tulsa, Oklahoma; Houston, Texas, and representatives throughout the USA.

## Pipeline Innovations Ltd

Unit 13E, Atley Way, North Nelson Industrial Estate, Cramlington, Northumberland, NE23 1WA, UK

**Tel:** +44 1670 618861

**E-mail:** info@pipeinn.com

**www:** Pipeline-Innovations.com

**Contact (PPSA & Sales):** Peter Ward

Pipeline Innovations Ltd (PIL) offers a range of multi-channel caliper pigs to support pipeline construction, commissioning and cleaning operations around the world. In addition to their standard product types, PIL specialise in the supply of caliper and electronic gauging pigs for commissioning of deep and shallow water subsea pipelines. A recent development is a foam caliper pig, which is intended for use as a bore proving tool for 'unpiggable' pipelines and for the measurement of scale and wax deposits in operational pipelines. Whilst the multi-channel caliper is their main product line, they also offer a subsea digital pressure gauge for monitoring and logging hydrotest operations on subsea pipelines.

## Pipeline Piggng Products Inc

PO Box 692005, Houston, Texas 77269, USA

11238 Timber Tech Ave. Tomball, TX 77375, USA

**Tel:** +1 281 351 6688, (800) 242 7997 (US)

**Fax:** +1 281 255 2385

**E-mail:** shannonkerr@pipepigs.com

**www:** pipepigs.com

**Contact (PPSA & Sales):** Shannon Kerr,  
Spencer Cubage

Pipeline Piggng Products Inc, a company with over sixty years of combined pig manufacturing experience, offers a full line of flexible polyurethane foam pigs, commonly known to the trade as "poly pigs". Available in drying, wiping and scraping types for pipe sizes below 2" to over 78" in diameter.

The company also has a pipeline cleaning division, Flowmore Services. This group which was founded in 1977, provides PPP customers with the technical "know-how" to use their pipeline cleaning products properly. In addition, Flowmore provides constant product feedback to the manufacturing group in order to ensure the products meet the tough needs of the pipeline cleaning industry.

## Pipeline Services LLC (PLS)

PO Box 4500, Abu Dhabi, United Arab Emirates

**Tel:** +971 2 555 45 13 **Fax:** +971 2 555 39 93

**E-mail:** mail@pls.ae

**Contact (PPSA & Sales):** Patrick Hivert and  
Mohamed Habbouly

### Altabyss Technical Services LLC (ALTABYSS)

PO Box 126815, Abu Dhabi, UAE

**Tel:** +971 6667137 **Email:** mail@altabyss.ae

**Contact (PPSA & Sales):** Mohamed Habbouly and  
Arnoldous Maas

Founded in 1960 and established in the United Arab Emirates in 1979, Pipeline Services LLC (PLS) has an in-depth knowledge of the performance requirements set by the regional oil and gas operating companies and EPC contractors.

PLS expertise and package services covers: Pipeline pre-commissioning, commissioning, decommissioning, rehabilitation, hot tapping & stoppling; Cathodic protection systems including designs and engineering, procurement and installation, commissioning, surveys, external coating defects assessment, maintenance and rehabilitation; GRE/GRV/GRP piping systems including stress analysis, shop fabrication, field installation, pipe system repairs, retrofit, rehabilitation and reinforcement.

ALTABYSS, founded in Abu Dhabi in 2010, is now a multidiscipline company covering the following activities: GRE/GRV/GRP piping systems (EPC): onshore/offshore/marine; Site survey, spool fabrication, field installation, rehabilitation; air pigging and hydrotesting; piping, clamps fabrication & installation, hydraulic bolt tightening; pipeline and utilities rehabilitation, commissioning and decommissioning; Integrity management, geometry and corrosion in-line inspection; Underwater works at waste management plants, chemical and nuclear plants; Treatment of water and aquatic environment.

## Pipesurvey International CV

Houtkoperstraat 22, 3334 KD Zwijndrecht PO Box 117, 3330 AC Zwijndrecht, The Netherlands

Tel: +31 78 610 1428 Fax: +31 78 610 2128

E-mail: info@pipesurveyinternational.com

www.pipesurveyinternational.com

Contact (PPSA): Peter van Beugen

Contact (Sales): Ralph van Wijgerden

Pipesurvey International is a service provider for pipeline inspection, intelligent pigging and pipeline integrity. From the start, Pipesurvey International tools are designed to offer solutions for piggable and non-piggable pipelines, such as reverse-flow operation, multi-diameter pigging, pigging at low pressure and flow or using active speed control in high flow gas pipelines.

The small to medium sized company is customer-oriented, flexible and innovative and has gained thousands of kilometres experience on a global basis, both onshore and offshore.

Pipesurvey International has developed propriety technique for pipeline inspection, ranging 3" up to 56", including Geometry, XYZ, MFL, TFI, camera, UT, robotic inspection, Datsurvey® software, defect assessment, Fitness-for-Purpose and Risk-based Assessment, engineering and consultancy, as well as specialized pipeline cleaning.

## Pipetech Corporation Ltd

3311-114 Avenue SE, Calgary, AB T2Z 3X2, Canada

Tel: +1 403 287 3558 Fax: +1 403 243 6279

www.pipetechcorp.com

Contact (PPSA & Sales): Terry Lotwin  
terry@pipetechcorp.com

Contact (Sales): Craig Ball  
craig@pipetechcorp.com

Pipetech has built a reputation around the world for helping companies maintain the integrity of their

pipeline assets. Every pipeline system has its challenges and Pipetech's pigging programs are designed to ensure the integrity of pipelines while optimizing flow rates.

Tasks from maintenance and heavy solids removal to preparation & implementation of corrosion inhibitor chemical in virtually any pipeline are accomplished with a line of industry-leading pigging products with superior sealing and scraping properties. Pig Signallers, pig location and tracking equipment, transmitters, meter prover spheres and pig valves round out their pigging product offering.

Their years of experience, deep expertise and quality products help ensure the safe operation of pipelines and the safe-keeping of communities.

## PSI – Pipeline Services International GmbH & Co KG

Thyssenstr. 2, 49744 Geeste-Dalum, Germany

Tel: +49 5937 980908 215

Fax: +49 5937 980908 190

Mobile: +49 171 387 9201

E-mail: m.strohecker@pressuretest.de

www.pressuretest.de

Contact (PPSA & Sales): Michael Strohecker

PSI – Pipeline Services International, provides special services for pipeline pre-commissioning, rehabilitation and pipeline inspection. Pipeline inspection is a part of PSI, which uses its own fleet of single, and the new multi-channel caliper tools for baseline surveys, passage control for third party intelligent inspection tools and the usual inspection of deformation of the inner diameter of pipelines. The advantage of the new multi-channel system is to give additional information about the o'clock position and the shape of the detected indication.

PSI also provides the following services: hydrostatic testing by water, air or gas; chemical/mechanical cleaning; pipeline drying by air, nitrogen, or vacuum; intelligent pigging; leak detection; construction/sale of pigs; supervision of all above mentioned services.

## PT. Tonsco International

Jl. Karang Tengah Raya Rukan Bona Indah Business Centre No.8J, RT.1/RW.3, Lebak Bulus, Cilandak, Kota Jakarta Selatan, DKI Jakarta 12440, Indonesia

**Tel:** +62-21 29237053 **Fax:** +62-21 29237051

**E-mail:** sales@tonscoindo.com **www.tonscoindo.com**

**Contact (PPSA & Sales):** Mr Lilis Munfa'adi

PT. Tonsco International is a leader in pipeline pigging solutions including pre-commissioning, commissioning, decommissioning, chemical cleaning, umbilical and flow assurance services to the pipeline, construction and process system industries both onshore and offshore services in Indonesia.

Below are included but not limited to PT. Tonsco International capabilities: Pipeline cleaning and intelligent pigging services; EPCI (fabrication, maintenance, installation); Services (Pre commissioning, diving, cold cutting, welding habitat, tightening and tensioning, sub sea tensioning); Rentals (welding machine, compressor, Iso tank, evaporator, heavy equipment, diving equipment).

## Propipe Limited

Queen's Meadow Business Park, Hartlepool, TS25 5TE, UK

**Tel:** +44 (0) 1429 872927

**Fax:** +44 (0) 1429 872206

**E-mail:** groupsales@propipe.co.uk

**www.propipe.co.uk**

**Contact (PPSA & Sales):** David Forster

Propipe specializes in the design, manufacture, test and supply of pipeline pigs, pig tracking equipment and pipeline plugging products for the oil and gas industry.

Since 1998 Propipe has operated from high specification manufacturing facilities based in Hartlepool, UK, capable of manufacturing all products in-house, as well as performing full operational piggability testing. Dedicated facilities include a 2500m<sup>2</sup> indoor test unit, allowing year-round testing.

Pipeline pigs range from foam pigs, cup pigs and disc pigs, with specialist designs for multi-diameters, long runs, high friction and a host of applications. Pipeline plugs are piggable, ROV operated, high pressure or specialist materials.

Trident products enable pipeline pig monitoring, pipeline data communication and logging operations using fully-digital acoustic, electromagnetic and magnetic

technologies. Products enable digital pig tracking & signaling, pressure/temperature data logging and SMART gauge plate condition systems.

## Q-Inline

14411 West Road, Houston, Texas 77041, USA

**Tel:** +1 832 634-2825 **Mobile:** +1 281 216-2776

**E-mail:** stephanie.allen@q-inline.com

**www.q-inline.com**

**Contact (PPSA):** Stephanie Allen

Q-Inline is a full service inline inspection company which currently provides deformation and MFL inspection services for diameter sizes from 6 through 32 inch. The MFL tools have tri-axial sensors and can be combined with deformation tools and an IMU to provide a full combo tool inspection. In addition, Q-Inline can provide turnkey services for pipeline cleaning, waste disposal, temporary launchers/receivers, full in-house tethered services, crane truck, sub centimeter GPS survey and tracking. Q-Inline is capable of customizing its analysis as well as provide enhanced analysis reporting, dent and bend strain analysis and run to run comparisons. Q-Inline is capable of reviewing difficult to inspect features by using pipe samples at its pull test/flow loop facility in La Grange, Texas, USA.

## Quest Integrity Group, LLC

### North America

10750 Cash Road Stafford, Texas 77477, USA

**Tel:** +1 832 500 1000 **Fax:** +1 832 500 1019

### Europe

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**Tel:** +49 721 95 95 757 **Fax:** +49 721 9595 666

### Asia-Pacific

69 Gracefield Road, Gracefield Research Center, Lower Hutt 5045, New Zealand

**Tel:** +64 4 978 6630 **Fax:** +64 4 978 9930

**www.QuestIntegrity.com**

**Contact (PPSA):** Jason Tuer

**Tel:** +44 1642 320142

**Contact (Sales):** Todd Ring

**Tel:** +1 832 500 1000

**E-mail:** marketingQIG@questintegrity.com  
sales@questintegrity.com

Quest Integrity, a Team Industrial Services company, is a global leader in the development and delivery of asset



integrity and reliability management services. The company's integrated solutions consist of technology-enabled, advanced inspection and engineering assessment services and products that help organizations in the pipeline, refining, chemical, syngas and power industries improve operational planning, increase profitability, and reduce operational and safety risks. Quest Integrity is headquartered in Seattle, Washington, USA.

## RAS Rohrleitungs- und AnlagenService GmbH

Lanzstrasse 5, 49716 Meppen, Germany

Tel: +49 5931 98 50 00 Fax: +49 5931 98 50 50

E-mail: [info@ras-pipeline.de](mailto:info@ras-pipeline.de)

[www.ras-pipeline.de](http://www.ras-pipeline.de)

**Contact (PPSA & Sales):** Daniel Benschmidt  
Tel: +49 5931 98 50 24  
[d.benschmidt@ras-pipeline.de](mailto:d.benschmidt@ras-pipeline.de)  
Mobile: +49 170 540 79 42

RAS Rohrleitungs- und AnlagenService GmbH provides globally pre-commissioning, rehabilitation as well as de-commissioning services on- and offshore. Representing almost 25 years of experience the service range includes pipeline cleaning, testing with liquid or gaseous mediums, drying with air, nitrogen or vacuum, inerting etc. and pigging for multiple applications such as cleaning, batching, leak detection and caliper pigging.

Since early 2011 RAS has provided pipeline inspection by means of its own GPI-tool, providing true multi-channel measurement, XYZ-mapping etc.

RAS was founded in 1992, has 60 employees and is certified in accordance to ISO9001:2008, ISO14001:2004, BS OHSAS18001:2007 and SCCP by Det Norske Veritas.

## Reinhart Hydrocleaning SA

Rue de la Croix 29-31, P.O. Box 31, CH-2822 Courroux, Switzerland

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[www.rhc-sa.ch](http://www.rhc-sa.ch)

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**Contact (Sales):** Giacomo Reinhart  
[gr@rhc-sa.ch](mailto:gr@rhc-sa.ch)

Family business in third generation with 20 employees established in Switzerland 1952 with focus on pipeline cleaning. Close client communication to provide best service from design to development, in-house testing

and execution in the fields to fit clients' expectations. Pre-commissioning, maintenance, operational and pre-inspection cleaning.

## Romstar Sdn Bhd

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[www.romstargroup.com](http://www.romstargroup.com)

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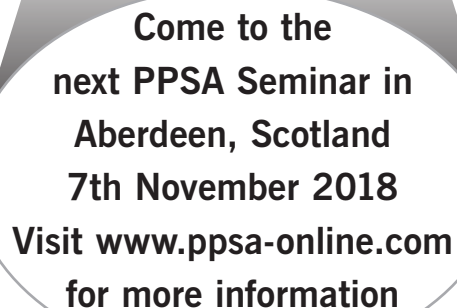
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**Contact (Sales):** Adam Harith Baharom, Group General Manager Business Development  
[adam.baharom@romstargroup.com](mailto:adam.baharom@romstargroup.com)

Romstar offers a full range of pipeline related services, from standard pre-inspection related services-cleaning, gauging, enhanced cleaning (for more difficult lines), to high resolution inspection services deploying intelligent pigs to measure metal loss, internal and external corrosion, coating loss, mechanical deformations and many other features without interrupting the pipeline transportation process.

Romstar possess in-house research and development capabilities and develops its own data interpretation software known as ROMSOFT which is capable of producing pipeline integrity reports for clients with precision and accuracy.

Romstar manufactures the entire range of cleaning pigs and other polyurethane products through its Polymer Division.



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## ROSEN Group

### Headquarters

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**E-mail:** info@rosen-group.com  
**www.rosen-group.com**

### Employment opportunities:

<https://jobs.rosen-group.com/Jobs>

ROSEN is a leading privately owned company that operates in more than 120 countries with more than 3,000 employees. They are a worldwide provider of cutting-edge solutions in all areas of the integrity process suiting a variety of industries, such as oil & gas, energy, process, mining, manufacturing, and others, for a wide range of assets

For more information about the ROSEN Group, please go to [www.rosen-group.com](http://www.rosen-group.com).

ROSEN offers: Pipeline cleaning tools, cleaning analytic services, accessories and electronic instruments, in-line inspection, high-resolution geometry inspection, XYZ mapping, high-resolution metal loss inspection utilizing magnetic flux leakage, ultrasound and eddy current technologies, pipe grade and material properties inspection, girth weld and long seam inspection, EMAT crack and coating disbondment detection, Ultrasonic crack detection, multi-diameter and robotic pipeline inspection, bi-directional and tethered pipeline inspection, leak detection, video inspection, inspection of plant and terminals, coiled tubing, flow and gathering lines, integrity management software, integrity engineering & consultancy, inspection solutions, integrity solutions, R&D solutions, product solutions, internal and external pipe coating, monitoring solutions, education systems and services.

## ROUGE Pipeline & Process Services LLC

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**Tel:** +971 4 336 7405 **Fax:** +971 4 336 7406  
**E-mail:** rougellc@eim.ae  
**www.Rougepipeline.com**  
**Contact (PPSA & Sales):** Mrs Jiji Moses

ROUGE Pipeline & Process Services provides integrated pipeline and tank services. From their HQ in Dubai they serve Middle East and Africa regions and they are expanding globally.

Their services include but are not limited to: Oil and gas pipeline pre-commissioning, onshore and offshore (flooding, cleaning, gauging, caliper survey, hydro testing, dewatering and drying); Pipeline, re-, de- and commissioning; Chemical cleaning, process plant and top side; Leak testing, nitrogen – helium, process plant and top side; Nitrogen purging, mothballing and preservation; Pipeline and tank maintenance and rehabilitation, defects assessments; Pipeline integrity management, MFL and UT inspection; Media filtration, flushing of lube oil and hydraulic oil systems; Acid pickling and passivation of stainless steel vessels; Supply of manpower, (project management, start up team / commissioning, construction – plant /top side – scaffolders, welders, pipe fitters, E & I specialist etc.)

## Sofield Analytic Pipe Asia SDN BHD

1-4-3A City Garden Commercial Centre, Taman Nirwana 68000 Ampang, Selangor, Malaysia  
**Tel:** +603 9212 3036 **Fax:** +603 9212 3038  
**E-mail:** wasfi@analyticpipe.com.my  
**www.analyticpipe.com.my**  
**Contact (PPSA & Sales):** Ahmad Wasfi Saian

Data integrity is paramount in every intelligent pigging service. That is justified by the ability of the tool to map the actual condition of a pipeline and locate defects along the line. Meeting accepted quality and specification necessitates the integration of precise mechanical parts and appropriate calibration of electronics.

Analytic Pipe Asia is committed to serve the oil & gas industry by providing reliable intelligent pigging services. Having years of experience in the industry and expertise in multiple physics are the core strength in developing high precision tools. APA has a dedicated R&D team that continually finds every possible solution to maintain the integrity of the deliverables. All this is to ensure the safety of the pipeline hence avoiding any operational risks for customers.

## Sriram Foams (P) Ltd

No.72, 1st Floor, Mehta Villa, Balaji Nagar, Padikuppam Road, Anna Nagar West, Chennai-600 040. Tamilnadu, India  
**Tel:** +91-44-42666618  
**E-mail:** muthukumar@sriramfoams.com  
**www.piganomics.com**

Sriram Foams Private Limited established in the year 1999 is an ISO 9001 – 2008 company accredited by Vincotte Belgium. They have been manufacturing

various types of polyurethane products for the past 15 years. They specialize in developing and producing all types of pipeline cleaning pigs. They have wide experience in making PU foam pigs in various densities and also mandrel pigs like batching pigs, bi directional pigs PU elastomer cups, discs, magnets, brushes (circular or spring loaded brushes). A high-quality work team with professional engineers, ample equipment, united workers and scientific management won a reputation for their pipe cleaning equipment. "Customer Satisfaction" based on excellent ability of quality, sales after service and innovation.

## STATS Group

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E-mail: [usa@statsgroup.com](mailto:usa@statsgroup.com)

Contact: Scott McNae – General Manager

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Contact: Gareth Campbell, Regional Sales Manager, Asia Pacific

STATS Group are market leaders in the supply of pressurised pipeline isolation, hot tapping and plugging services to the global oil, gas and petrochemical industries. STATS DNV GL type approved isolation tools provide leak-tight double block and bleed isolation that enables safe and efficient maintenance and repair of onshore, topsides and subsea pipeline infrastructure.

Their Process Plant Solutions offer hot-work barriers and localised hydrostatic test tools to verifying the integrity of welds or fittings, reducing system downtime, minimising environmental impact and increasing

worksite safety. Mechanical pipe connectors replace the need for welding, significantly reducing expenditure and associated risks with hot-work.

## Subsea Technology & Rentals Ltd

Sonar House, 36 Riverside Road, Gorleston-on-Sea, Great Yarmouth, Norfolk, NR31 6PX, UK

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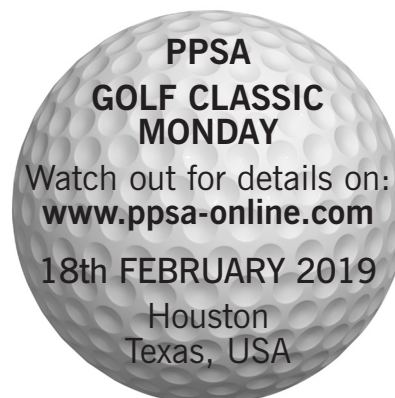
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[www.str-subsea.com](http://www.str-subsea.com)

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Subsea Technology & Rentals (STR), is a specialist technology company providing rental and sales services globally to the offshore marine sectors. STR's newly formed partnership with CDI, an elite International Pipeline Pig Tracking, Signalling and Communications Equipment Company, provides STR's global customer base with access to CDI's pipeline pig locating, tracking and passage detection equipment.

STR has delivered mission critical solutions to support offshore survey, ROV, IRM, positioning, environmental and subsea construction sectors. Their mission is to offer all of their customers a competitive edge by delivering integrated, forward thinking technology and innovative engineering solutions, complete with flexible and dedicated support from project planning to project completion.



## T. D. Williamson

[www.tdwilliamson.com](http://www.tdwilliamson.com)

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### Europe / Africa / Middle East

Tel: +32 67 28 3611

### Asia Pacific

Tel: +65 6364 8520

### Offshore Services

Tel: +47 5144 3240

Drawing upon a 98-year history of industry leadership, TDW is a global solutions provider for the owners and operators of pressurized piping systems. T.D. Williamson delivers a comprehensive portfolio of safe integrity pipeline system solutions for onshore and offshore applications, including advanced isolation and repair, integrated pigging, and integrity assessment solutions.

## TRAPIL

1, rue Charles-Edouard Jeanneret, 78260 POISSY, France

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TRAPIL was established in 1950 and is the oldest and largest refined products pipeline operator in Europe. Operations include Le Havre/Paris pipeline system and many other civil and military networks throughout France. It represents some 4800 km of pipeline and 160 pumping and delivery stations. There are also more than 850 000 cubic meters of storage tanks.

To monitor and maintain the integrity of this pipeline network, TRAPIL has developed a range of instrumented pigs and other specific products. This combination of operational experience and instrumented pig applications enables TRAPIL to provide solutions to many pipeline inspections and leak detection/location problems.

The services provided include acoustic measurement for leak detection and ultrasonic pigging for metal loss features, corrosion and geometric anomalies detection.

## Tianjin Greentsing Pipeline Technology Co.,Ltd.

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Tianjin Greentsing Pipeline Technology Co., Ltd. (hereinafter referred to as GTPT) was founded in 2004, which is located in Jingbin Industrial Park, Tianjin, China. GTPT is a national high technology company, which is based on manufacturing pigging equipment, pipeline inspection and maintenance and repair equipment. Meanwhile, the research, manufacturing, trading and engineering and technical services are integrated.

GTPT is specialized in manufacturing the pipeline pigging equipment, inspector, hot-tapping and plugging devices, automatic tank cleaning equipment and the corresponding spare parts. Also, GTPT can provide the engineering and technical service including pipeline installation, changing, pigging, drying, inspection of inside and outside the pipeline, hot-tapping and plugging for nonstop transmission pipeline and oil tank mechanical cleaning.

## Topline Limited

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Topline Limited, established in 1982, provides pipeline cleaning, pipeline descaling, pipeline integrity surveys and inspection, cathodic protection, pipeline coating, valve maintenance and replacements, manifold maintenance, GRE piping and pumping services in the oil and gas industry.

The company has a team of Nigerian and expatriate engineers with several years of international and local experience. Topline also has a relationship with Weatherford Pipeline and Specialty Services TAPECOAT Inc., USA, and VAL-TEX Houston, USA for the provision of pipeline and valve integrity management planning and related services.

## Tracerco Ltd

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[www.tracercoasia.com](http://www.tracercoasia.com)

Contact: Robert Yong

Tracerco's field proven Discovery™ is a Subsea CT Scanner that allows the non-intrusive inspection of coated pipelines. Discovery™ scans through coatings and provides a high resolution image of pipeline contents and pipe wall thickness, enabling pipeline integrity flaws and flow assurance conditions to be accurately visualised in real-time.

Tracerco Explorer™ for Flow Assurance provides pipeline operators with a reliable screening service to determine the location of deposition build-up for further investigation. Explorer™ unique technology allows many kilometres of subsea pipeline to be quickly scanned, enabling the location of deposits causing flow abnormalities to be easily identified.

Tracerco's radioisotope pig tracking systems provide safe, fast, reliable and accurate subsea pig tracking. This allows tracking of pig positioning and pig location.

## Trans Asia Pipeline Services

### Middle East and North Africa, South Asia, India

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Trans Asia Group is a leading contractor specialized in Pipeline and Specialty Services for the oil & gas, petrochemical and power industry. Through their offices in UAE, Saudi Arabia, Kuwait, India and Singapore, they provide a wide range of pipeline and specialty services and have successfully completed projects in the Middle East, South East Asia and Indian region for the oil companies and EPC contractors.

Services offered by Trans Asia: Pipeline Services: pre-commissioning and commissioning, pigging, testing, calliper and I/LI inspections, nitrogen services, decommissioning of pipelines, gel pigging, chemical cleaning, mothballing pig tracking, stuck pig removals, pig design and piggability studies

Pipeline Maintenance Services: Online pigging, dewaxing, black powder/scale/wax removals, leak detection/repairs

Trans Asia also provides full spectrum of process pre-commissioning and commissioning services such as chemical cleaning, oil flushing, nitrogen-helium leak testing, hydromilling etc.

## Tulsa Valve

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**E-mail:** sales@tulsavalve.com  
[www.tulsavalve.com](http://www.tulsavalve.com)  
**Contact (PPSA):** Bob Gibson  
**Contact (Sales):** Gayla Logan or Greg Johnson

Tulsa Valve has been manufacturing and delivering pigging valves globally since 1996. Both the Shut-off and By-pass designs have evolved to serve today's pipeline customers. Sizes 2"-16" in A350 LF2 NACE are standard with larger sizes and material options available upon request. Estimated saving in costs and footprint requirements are estimated to be 25-60% over traditional barrel and trap systems. The By-pass pig valve provides the smallest footprint and has often been preferred in offshore applications where space is severely limited.

## Vee Kay Vikram & Co. LLP

VKVC, "VKV House", 'D' Shivalik Business Center, Opp. Golf Academy, Rajpath Club X- Road, S.G. Highway, Ahmedabad – 380 054, Gujarat, India  
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**Contact (PPSA & Sales):** Vineet Sood  
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### VKV Oilfield & Pipeline Services Co Pvt Ltd

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Mobile: +91 98252 30624 & +91 98795 90464

Vee Kay Vikram & Co was established in 1969, is accredited to ISO9001:2000. VKVC manufactures pig barrels, quick opening closures, flow tees, pig wyes, tees, online leak repair clamps, pin hole repair clamps, reinforcement epoxy grout sleeves, insulation joints, pipeline connectors and pig indicators.

VKVC quick opening closures and leak repair clamps are offered with API-6H Monogram under license number 6H-0012. The closures are also available with ASME

'U' STAMP and are supplied with complete cladding.

VKVC pig launching and receiving valves are offered with API-6D Monogram under license number 6D-0622.

VKVC also manufactures various types of pipeline pigs up to 56". NB: size, including Bi Di, spherical, commissioning and special purpose pigs.

VKVC offers pig tracking services and is authorized sales & service distributor for CDI – USA Pig Tracking Equipment.

VKVC personnel are available at various sites in India, Bangladesh and Middle East for carrying out pipe jobs on contract including geometric (EGP) survey of Pipelines.

## VP Engineers

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**Contact (PPSA):** N Srinivasan  
**Contact (Sales):** S Krishna Kumar

VP Engineers manufacture specialized industrial products for refineries, petrochemicals & processing plants.

VP Engineers' products for pigging are cleaning pigs, batching pigs, gauging pigs, bi-di pigs, commissioning pigs, foam pigs, criss-cross foam pigs, heavy duty foam pigs, swabbing pigs, de-watering pigs and magnetic pigs.

VPE also provide customised Pigs – with varieties of spring loaded brushes, circular brushes, silicon carbide strips, tungsten carbide studs, carbon and stainless steel wire bristles attached to the steel mandrel/aluminium mandrel and foam bodied pigs with or without PU elastomer coatings.

Other pipeline related products offered by VP Engineers include casing insulators/spacers, casing end seals, pipe end caps, monolithic insulation joints and ring joint gaskets.

## WSG Industrial Services b.v.

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E-mail: [gturner@wellservices-group.com](mailto:gturner@wellservices-group.com)

Contact: G Turner

The founders and directors of PNS b.v. (now known as WSG Industrial Services b.v.) have more than 20 years of experience in the pipeline and process industry. It is their desire to provide a service to the company's clients with an excellent pitch towards safety, efficiency, innovation and quality. During 2009 PNS b.v. merged with its partner company, Coil Services b.v. (now known as WSG Coil Services b.v.) and later on merged with WSG Slickline Services b.v. to form one company employing 350 people worldwide. Today WSG Industrial Services b.v. is a member of the Well Services Group.

WSG Industrial Services b.v. is an integrated service company offering a range of solutions for the onshore and offshore oil & gas industry, the LNG industry, petrochemical industry, pipeline industry, renewable energy industry, industrial chemical industry, power generation industry, pharmaceutical and manufacturing industry. WSG Industrial Services is designed to optimize production and minimize downtime during the whole lifecycle of the pipeline and / or process plant.

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## WeldFit Corporation

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[www.weldfit.com](http://www.weldfit.com)

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For more than 50 years, WeldFit has been a leading global manufacturer of standard and custom products for the pipeline, oilfield, refining, and petrochemical industries. They are dedicated to delivering a higher level of service that makes complex operations a truly effortless experience.

WeldFit's core product and service offerings range from automated pigging, hot tap & line stop fittings, to extruded headers and manifolds. With the combination of their innovative engineering, specialized tooling techniques, and experienced personnel, they are able to partner with your organization to design and develop tailored fit solutions to address your unique challenges.

WeldFit is headquartered in Houston, Texas, with distribution worldwide, and is proudly ISO 9001 certified.



**FREE TECHNICAL  
information service**

**Email: [ppsa@ppsa-online.com](mailto:ppsa@ppsa-online.com)**

Use our service to source pigs and pigging equipment and for general advice on the subject.

Our members and technical advisers are on hand to answer your questions about pigging and pipeline integrity.

## Associate Members

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## 3X Engineering

### PIPELINE REINFORCEMENT SYSTEM

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Contact (PPSA & Sales): Stanislas Boulet d'Auria

Founded in 1990, 3X ENGINEERING is one of the leading companies in pipeline repair using composite technology. Mainly operating in the oil & gas industry, their expertise also includes the energy and construction sector. They not only manufacture and commercialize their own products but they also offer a complete integrated service, from the design of the repair to onsite installation. From their head offices in Monaco, they operate worldwide, onshore and offshore/subsea, thanks to their large distribution network.

Their range of products: REINFORCEKiT® 4D: composite repair for pipe reinforcement; TANKiT®: composite repair for damaged tank; STOPKiT®: online leak sealing; ROLLERKiT®: pipe & support protection; REFLANGEKiT®: online repair for SF6 leaking flange.

## Charger Industries

### BATTERY MANUFACTURER

#### Canada Office

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Tel: +1 403-208-8173 Fax: +1 403-208-8174

E-mail: [sales@chargerind.com](mailto:sales@chargerind.com) [www.chargerind.com](http://www.chargerind.com)

Contact (Sales): Scott Okeefe

#### US Office

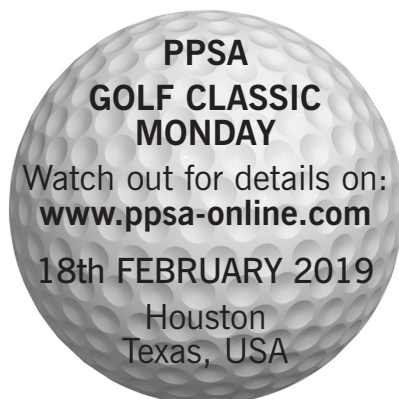
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Tel: +1 281-586-7161 Fax: +1 281-586-7167

E-mail: [sales@chargerind.com](mailto:sales@chargerind.com)

Contact (PPSA & Sales): Daniel Murphy

Charger Industries is an ISO 9001 certified custom battery pack manufacturing company specializing in high reliability battery packs for the Oil and Gas industry. They have over 20 years of experience building custom batteries for a wide variety of applications, including some of the most extreme environments on earth. They are able to bring innovation and experience to every phase of a battery project including: engineering design (both mechanical and electrical), testing, integration, training, and technical support. All of that expertise is coupled with competitive pricing and a level of customer service that is unmatched in the industry.





## Cottam Brush Ltd

### BRUSH MANUFACTURER

Unit 7, Monkton Business Park North,  
Hebburn NE31 2JZ, UK

Tel: +44 191 428 2510 Fax: +44 191 428 3078

E-mail: eddie.moon@cottambrush.com

www.brushesforindustry.com/

Contact (PPSA): Ben Cottam

Contact (Sales): David Leathead, Eddie Moon

COTTAM BRUSH's pipeline team supply specialist products for existing fleets of pigs or custom made to your specification. They manufacture to suit any pig to the required size and abrasion level for your job.

With over 30 years of design and manufacturing experience with the latest materials and techniques, they ensure a great result for your customer.

Their inline inspection bristles provide the optimal magnetic permeability and enhanced conductivity to enable the collection of accurate and reliable data.

The QUATTRO-FLEX pipeline cleaning brush features pencil brush technology with full 360° deflection, providing better cleaning performance from start to finish.

## Dow Polyurethanes

### POLYURETHANE MANUFACTURER

Station Road, Birch Vale, High Peak, Derbyshire,  
SK22 1BR

Tel: +44 1663 746518 Fax: +44 1663 746605

E-mail: help@dowhyperlast.com

www.dowhyperlast.com

Contact (PPSA & Sales): Paul Fitzgerald

Dow Polyurethanes manufacture elastomer systems (REACH compliant 2018) for a variety of PIG wear components amongst many other engineering applications. Their aim is to be the material technology provider of choice, offering application development and processing support to grow your business with their range of innovative solutions for the most demanding industrial engineering applications. Dow Polyurethanes offer more than 40 years experience of MBoCA-free elastomer systems, together with reliable service, and creative polymer design, as well as the vast resources of one of the world's largest and most respected chemical companies.

## Engineered Power

### BATTERY MANUFACTURER

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T2A 7N6

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www.engineeredpower.com

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Mobile: +1 403 660 3108

Engineered Power provides the oilfield industry with innovative power solutions to extreme environments. Engineered Power (EP) produces primary lithium thionyl chloride batteries specifically for pigging, oil and gas applications. EP's rigorous cell testing and intensive product inspections ensure maximum performance, reliability and shelf life.

## Equinor ASA

### OIL AND GAS PRODUCTION AND EXPLORATION

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Tel: +47 51 99 00 00 Fax: +47 51 99 00 50

E-mail: rvel@equinor.com

www.equinor.com

Contact (PPSA): Robin Veldt

International Energy Company

## Excell Battery Corporation USA

### BATTERY MANUFACTURER

1638 W. Sam Houston Pkwy N, Houston, TX 77043,  
USA

Tel: +1 832-297-5426

E-mail: OSmyth@excellbattery.com

www.excellbattery.com

Contact: Oisin Smyth

Excell Battery Corporation USA make battery packs for pigging applications. They have been making battery packs for the oil market and pigging market for the past 25 years for many big name customers.

## Fiberbuilt® Manufacturing Inc

### BRUSH MANUFACTURER

3613 63rd Avenue NE, Calgary, Alberta, T3J 5K1, Canada

Tel: +1 800 661 8132 or +1 403 274 6366

Fax: +1 800 661 3137 or +1 403 275 4718

E-mail: brush@fiberbuilt.com

www.fiberbuilt.com

Contact (PPSA & Sales): Dan Fletcher

Fiberbuilt® a leading brush manufacturer in the pipeline industry. Fiberbuilt®'s patented MFL brushes and pipeline cleaning brushes have been laboratory tested for best magnetic flux conductivity, strength and wear resistance.

Fiberbuilt® manufactures with a variety of wire types, diameters and sleeve dimensions. For the past 50 years, Fiberbuilt® has used its innovative engineering and experience to customize industrial brushes to meet industry requirements.

## Galaxy Brushes

### BRUSH MANUFACTURER

500 Gleason Drive, Moosic, PA 18641, USA

Tel: +1 570-457-5199

E-mail: Leeb@galaxybrushes.com

www.galaxybrushes.com

Contact (PPSA & Sales): Lee Batzel, President

Galaxy Brushes is an industry leading brush manufacturer that prides itself on being a customer focused organization that produces creative and high-quality solutions with dependable results.

## Innospection Limited

### NON-DESTRUCTIVE TESTING

Unit 1, Howemoss Avenue, Kirkhill Industrial Estate, Dyce, Aberdeen, AB21 OGP, UK

Tel: +44 1224 724 744 Fax: +44 1224 774 087

E-mail: a.boenisch@innospection.com  
info@innospection.com

www.innospection.com

Contact (PPSA & Sales): Andreas Boenisch

Innospection Ltd is a provider of advanced and innovative inspection services and solutions for the integrity and lifetime assessment support of onshore and offshore topside, splash zone and subsea assets. An

expert in electromagnetic inspection technologies such as Eddy Current and Magnetic Eddy Current (MEC), Innospection has delivered advanced NDT services to the worldwide process industries since 1998.

Innospection's inspection technologies are used worldwide as key tools to support the lifetime and fitness-for-service assessments of: pipelines and pressure vessels; storage tanks; heat exchanger and boiler tubes; flexible risers and mooring lines; rigid risers; caissons and conductors; subsea pipelines and structures; and ship hulls.

## Innotech Electronic GmbH

### ELECTRONICS AND PRESSURE TIGHT CABLES

Linkenheimer Weg 51, 76646 Bruchsal, Germany

Tel: +49 (0) 7251 9323 80

Fax: +49 (0) 7251 9323 81

E-mail: w.markus@innotech-electronic.de

www.innotech-electronic.de

Contact (PPSA & Sales): Wolfgang Markus

Cable Tailoring: Innotech Electronic cables are successfully used in the Oil & Gas Industry and prove themselves daily under adverse ambient conditions. The cables are exposed to dynamic high pressures in different pipeline media such as crude oil, natural gas, salt water and diesel and are additionally exposed to vibrations and impacts. All cables are manufactured according to customer requirements.

Electronic Manufacturing: Innotech Electronic assembles PCBs, from prototype to mid-sized series. PCBs with SMD are soldered by vapour phase.

Also they offer: the manufacturing and testing according to customer specification; assembling of electronic components and complete device units.

The encapsulating of electronic parts for direct operating in pipelines is completing their range.

## KOTI-Dawson Ltd

### BRUSH MANUFACTURER

Clayton Wood Rise, West Park Ring Road, Leeds, LS16 6RH, UK

Tel: 0113 275 9321 Fax: 0113 275 2761

E-mail: enquiry@dawsonbrush.co.uk

www.koti-eu.com

Contact (PPSA & Sales): Trevor Wheeler

Established in 1966, KOTI has developed into a specialist manufacturer of industrial and technical

brushes for all branches of industry. Part of their range includes internal and external tube cleaning brushes, brushes for attaching to "Pigs" for pipeline cleaning. Their objective is to ensure that their brushes provide additional value to their customer's production processes. KOTI combines decades of craftsmanship with the latest manufacturing technology.

KOTI has established itself as a global group company with a considerable reputation as a market leader.

## Osborn International GmbH

### BRUSH MANUFACTURER

Ringstrasse 10, D-35099 Burgwald, Germany  
Tel: +49 6451 588-0 Fax: +49 6451 588-206  
E-mail: thildebrandt@osborn.de  
www.osborn.com http://welding.osborn.com  
Contact (PPSA & Sales): Torsten Hildebrandt

Osborn offers high-quality, heavy-duty brushes for pipeline needs – from cleaning to inspection.

Osborn pipeline cleaning brushes are available for cleaning paraffin, rust, oxides, organic residue, sand and debris in operating pipeline systems. The range includes arc, straight-wire strip, coils and open-pitch helical brushes.

Osborn inspection brushes are part of MFL inspection equipment, for locating defects in pipelines, to avoid hazards. Inspection brushes are available in various sizes and configurations, from straight-wire strip, to detailed pencil brushes.

In the business of brushes since 1887, Osborn's technical support team is composed of people with real-world experience that solve application problems and help with product selection.

Visit PPSA's Web Site  
[www.ppsa-online.com](http://www.ppsa-online.com)

for more information and  
Hyperlinks to Members'  
Web Sites

## Shell UK Ltd

### OIL AND GAS EXPLORATION AND PRODUCTION

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## Southwest Electronic Energy Group

### BATTERY MANUFACTURER

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E-mail: info@swe.com  
www.swe.com  
Contact (PPSA & Sales): David O'Banion

Since 1964, SWE has been a quality supplier of battery solutions to the oil and gas industry. SWE Pipeline Inspection Gauge (PIG) battery packs are based on high performance Lithium cells from their cell partners, Engineered Power and Vitzrocell-Exium. SWE battery products offer higher capacity, advanced technology gauges, installed base compatibility, and competitive price. SWE is headquartered near Houston with over 70,000 square feet of ISO 9001:2008 quality certified battery technology R&D, manufacturing, and customer support. SWE delivers service, quality and reliability in every facet of their business, including an industry leading Electronic Test Data Sheet for manufacturing quality traceability of each and every battery pack. Contact for a custom battery quote.

## Stark Pipeline Services

### PIPELINE SERVICES PROVIDER

19806 Mueschke Rd Tomball, TX 77377, USA  
Tel: 1-281-357-0762 Fax: 1-281-357-0763  
E-mail: sales@starktrans.com  
www.starktransportation.com  
Contact: Gerald Stark

Stark Pipeline Services provides a variety of services to the pipeline integrity industry including pipeline mapping and surveying, pig tracking, pig cleaning, NORM decontamination, project management, infield transportation, and crane. In addition to these services Stark technicians are also trained to build and refurbish smart pigs and cleaning pigs. Stark has been part of the pigging industry for over 15 years and the company prides itself in maintaining a high level of safety and professionalism.

## STOCKMEIER Urethanes USA, Inc

### POLYURETHANE MANUFACTURER

20 Columbia Boulevard, Clarksburg, WV 26301, USA

Tel: +1 304 624 7002 Fax: +1 304 624 7020

E-mail: [d.mayle@stockmeier.us.com](mailto:d.mayle@stockmeier.us.com)

[www.stockmeier-urethanes.com](http://www.stockmeier-urethanes.com)

Contact: Dustin Mayle

STOCKMEIER Urethanes USA, Inc., located in Clarksburg, WV, is a subsidiary of the STOCKMEIER Group which was founded in 1991 in Bielefeld, Germany as a polyurethane systems house focused on the development and production of coatings, adhesives, sealants and elastomers. They currently operate four manufacturing facilities worldwide specializing in developing customized urethane solutions for products in numerous markets such as automotive, electrical, pipeline pigging and sport surfaces to name a few. With years of experience and research, STOCKMEIER Urethanes is able to provide their clients with the support they need to select the perfect product to meet their needs. Their clients will receive the most efficient and cost effective polyurethane system every time making STOCKMEIER Urethanes the smart solution.

## S.N.T.G.N. Transgaz S.A.

### PIPELINE SYSTEM OPERATOR

European Funds and International Relations Division  
Headquarter: P-ța C. I. Motaș nr. 1, 551130 Mediaș,  
jud. Sibiu, România

Tel: +40 374 191481 Fax: +40 213-122701

E-mail: [mihai.boboc@transgaz.ro](mailto:mihai.boboc@transgaz.ro) [www.transgaz.ro](http://www.transgaz.ro)

Contact: Mr Daniel Boboc

SNTGN TRANSGAZ SA Mediaș, as the sole technical operator of the Romanian Gas Transmission System (consisting of approximately 13000 km of pipelines and related facilities) provides following services: domestic gas transmission, international gas transmission, dispatching and research-design, in compliance with the national and EU regulations and standards of quality, performance, environment and sustainable development.

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## Vitzrocell USA, Inc

### BATTERY MANUFACTURER

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E-mail: [arose@vitzrocellusa.com](mailto:arose@vitzrocellusa.com)

[www.vitzrocellusa.com](http://www.vitzrocellusa.com)

Contact (PPSA & Sales): Anthony Rose

Vitzrocell USA, Inc., formerly Exium Technologies, Inc., a division of Vitzrocell Co. LTD, is a manufacturer and distributor of Lithium Metal Batteries for use in Pigging and Downhole operations for the oil and energy industries. Vitzrocell USA products are used worldwide in oil and gas operations, providing excellent performance and long life under extreme conditions (high temperature, shock and vibration). Vitzrocell USA currently provides batteries to major corporations in Houston, Calgary and the United Kingdom, and expanding to new markets in Central America, South America and Europe.



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# Individual Members

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## Douglas Batzel

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Pipeline and Pigging consultant. Advises on the cleaning ability of Pigs and/or brushes. A brush making expert with 25+ years in the business.

## David E Bull, ARM

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The EITEP Institute is organizer of the Pipeline Technology Conference (ptc) and publisher of the Pipeline Technology Journal (ptj).

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## Anssi Lehikoinen

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Provider of tomography smart pig for deposition and geometry measurement.

## BJ Lowe

Clarion Technical Conferences

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Organizer/publisher of training courses, conferences and reference books for the pipeline industry.

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Consultant on pipeline integrity and ILI issues. Former  
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Corrosion Consultant: internal corrosion in pipelines,  
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## Doug & Chris Woodley

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E-mail: enquiries@woodleypipelineservices.co.uk

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Consultants: Pig design/testing/feasibility studies. Tender preparation/evaluation. Inspection data and report assessment, vendor comparison/QA. MFL data training. Technical advisers to PPSA.

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### Gill Hornby

Retired Executive Secretary of PPSA

### Chris Kershaw

Founder member of PPSA. First President (1991–1992). Treasurer (1991–2000).

### Coleman McDonough

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Pipeline pigging consultant. Former President of PPSA.

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