



PIGGING PRODUCTS & SERVICES ASSOCIATION

An international trade association serving the pipeline industry

BUYERS' GUIDE & DIRECTORY OF MEMBERS 2016 – 2017

www.ppsa-online.com

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 pigging 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 pigging 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 pigging, sponsors lectures and meetings about the subject and supports relevant conferences.

Full Members are companies manufacturing or marketing pigging 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 pigging.

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

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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,
\$52 US elsewhere

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A.Hak Industrial Services 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, A.Hak Industrial Services 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.

A.Hak Industrial Services is based in the Netherlands and has offices in: United Arab Emirates, Malaysia, Australia, United States, Brazil, United Kingdom, Germany, Romania, France, Italy, Spain and South Africa.

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

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

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

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

Visit PPSA's Web Site
www.ppsa-online.com

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

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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.

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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.

Aubin Group

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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

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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 Process and Pipeline Services

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The Baker Hughes Process and Pipeline Services (PPS) group offers pipeline services in three primary categories to help global operators improve pipeline efficiency, reduce product-to-market time, reduce HSE risk, and meet regulatory standards. Services include pipeline pre-commissioning, flooding, hydrostatic testing, cleaning, drying, and product commissioning; pipeline maintenance services include in-line filtration and separation, gel pigging, chemical and mechanical cleaning, nitrogen purging, online pigging, temporary pumping packages and product transfer; and pipeline inspection services that offer caliper, inertial geometry, cathodic protection surveys, crack detection and metal loss using magnetic flux leakage and ultrasonic technologies, and fit-for-purpose evaluations. Baker Hughes PPS services are available to the natural gas, crude oil, refined products, and petrochemical industries in major oil producing areas across the globe.

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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 SeaTrack offers state-of-the-art acoustic pinger technology, which has the ability to send digital information from the pinger to the receiver.

Quality, durability and safety are the focus. On-time delivery and exceptional service is the goal of every CDI associate. CDI is an ISO 9001:2008 certified company.

CDRiA Pipeline Services Ltd

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CDRiA Pipeline Services Ltd. was established in 1998.

The Company's only shareholder is PERN S.A., the operator of 2500km crude oil pipeline network in Poland.

CDRiA are a member of the PERN Group.

All their services are rendered using the tools developed and fabricated by CDRiA's team of engineers.

CDRiA offers: Ultrasonic pipeline in-line inspection – metal loss and crack detection, pipeline internal geometry inspection, pipeline XYZ mapping.

CDRiA inspection personnel and tools are certified according to Polish and international standards: ISO 9001:2008 Certificate, TÜV Anlagentechnik, PRS, Atex.

CDRiA's mission is rendering pipeline in-line inspections for their customers, providing them with the ability to implement professional pipeline integrity management and achieve their business targets.

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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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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.

Drinkwater Products

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Drinkwater Products is a distributor for pipeline pigs and pigging equipment. They are located in Franklin, Louisiana and have been in the pigging business for more than 25 years. They offer a wide range of pigging products, consulting services and have the capability to custom design pigs for a variety of unique applications. Drinkwater Products works closely with several manufacturers ensuring that their customers have the best options available for his/her particular pipeline pigging needs.

Enduro Pipeline Services, Inc

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Enduro Pipeline Services corporate headquarters is located in Tulsa, Oklahoma, with additional facilities in Canada. Enduro provides in-line-inspection services, cleaning pigs, tracking equipment 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 plus technical assistance is offered by Enduro experienced staff.

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Brought to you by the same team that first commercialised XHR MFL technology and that invented the MFL/Caliper combo tool, 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 equipment available. Focused on the highest quality and service, Entegra's personnel are some of the most experienced in the industry.

GD Engineering

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GD Engineering, an SPX Brand, is a market leader in the design and manufacture of engineered pipeline pigging solutions to the oil, gas and process industries.

Their Bandlock™ 2 Closure range provides speed of operation with safety benefits. Used on process vessels such as, pig traps and filters, size range to 100" (2.5m) diameter, pressures to ASME #2500 (425 barg).

GD Engineering has many years experience in providing innovative closure designs for a wide range of process vessel applications. The Pigalert Hi-T intrusive and the non-intrusive MAGAlert and ULTRAlert pig signaller range provide reliable pig/sphere passage indication.

Multiple Pig Launchers allow remote multiple pig launching without depressurisation.

The Company's quality system is approved to ISO 9001:2008 by LRQA and they feature in the FPAL and Achilles Joint Qualification System.

Girard Industries

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Founded in 1968, Girard is approaching 50 years of manufacturing high quality pipeline cleaning pigs along with providing unmatched customer service. Girard's manufactured product line encompasses the full range of pipeline pigs, including foam pigs (polly-pigs), steel mandrel pigs, solid cast polyurethane pigs, spheres (balls), as well as replacement cups, discs and other urethane parts.

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

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



GOTTSBERG Leak Detection GmbH & Co. KG

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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

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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.

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Gulf Strategic Partners (GSP) was established in the Middle East in 2004, with headquarters in Bahrain and offices in Saudi Arabia, Qatar, Dubai, Abu Dhabi, Kuwait and India. Collectively their personnel have over 350 years of industrial cleaning expertise. They are ISO 9001:2008 certified.

Gulf Strategic Partners provide services including steam blowing, chemical cleaning, water milling, pipeline services, pigging, hydro testing, de-watering, swabbing, air drying and N₂ layup, surfactant cleaning, gauging, gel debris pick up, process system drying, N₂ purging and preservation, helium leak testing, lube oil system flushing, fin fan cooler cleaning, process decontamination, tank cleaning, wire brush pigging to remove debris in pipelines.

Pipeline pigging is performed during new construction, decommissioning, abandonment and subsequent removal of pipelines.

Halfwave AS

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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)/ (Surestream® Flow Assurance Services)

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Halliburton's Pipeline & Process Services (PPS) department operates worldwide providing a full range of pre-commissioning, commissioning, decommissioning, chemical cleaning, umbilical and flow assurance services to the pipeline, construction and process system industries both onshore and offshore. Services include flooding, cleaning, gauging, decommissioning, mechanical pigging, gel pigging, dewatering, drying and conditioning, chemical cleaning, thermal cleaning, intrusive intervention and pressure jetting. Additional specialist services include subsea pigging, and hydrotesting. Nitrogen inerting, helium leak detection, bolt tensioning and video inspection services are also supplied.

Halliburton's SureStream® Flow Assurance Service provides an integrated range of consultative, analytical, engineering and remediation solutions to address any flow assurance problems in pipelines and flowlines.

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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.



IK Group

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IK Norway is a Norwegian Company established in 1987 to supply the oil and gas industry with pipe and pipeline services and products.

IK has a highly skilled staff of graduated engineers and operators. IK have performed major investments in "state of the art" software including Inventor (3D CAD), analytical tools and facilities to execute the work. IK Norway is comprised of five departments within a carefully selected range of niche disciplines, i.e. PPS – Pigging Products and Services (engineering, supervision, equipment and products related to 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 (provision of bolting services/equipment and calibration of instruments).

IK has a subsidiary, IK-UK Ltd. (UK), specialized in pigging and plugging products.

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IKM Testing with its 930 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, Halifax and Alberta), Spain (Cadiz), Australia (Perth), Singapore, Indonesia (Batam), Malaysia (Kuala Lumpur), Thailand (Rayong), Poland (Gdansk), Brasil (Rio de Janeiro and Bangu), Mexico (Mexico City) 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 system in accordance with ISO 9001:2008, OHSAS 18001:2007 and ISO 14001:2004.

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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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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.

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

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iNPIPE PRODUCTS™ is an acknowledged world leader in the design, manufacture, supply and rental of pipeline maintenance equipment. Operating in the oil, gas, petrochemical and water industries many products are specified by most international operators and contractors.

As a company INPIPE PRODUCTS™ prides itself on innovation, quality and JIT delivery. Investment into R&D has resulted in the patenting of a number of products the first being an intrusive signaller registered in 1986 which continues to be acknowledged as a market leader worldwide.

iNPIPE PRODUCTS™ also offers the largest UK hire fleet of isolation tools, high pressure plugs and internal and flange type weld testers up to 42". iNPIPE PRODUCTS™ offer innovative easy to use tools intrinsically safe in design low-cost time-saving solutions.

Kleiss & Co bv

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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

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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 H₂S 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.

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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 and TOFD, eddy current and others).

All diameter ≥ 6 " and up to 12km in length are inspectable (4" 2017).

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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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.

MACAW Engineering Ltd

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MACAW Engineering Ltd is a leading independent engineering consultancy working closely with global operators of oil & gas production facilities, pipelines and utility systems to reduce risk, maintain integrity and extend the service life of client assets.

Based in Newcastle (UK), MACAW Engineering Ltd employs over 95 full time staff comprising of principal consultants, senior engineers and engineers covering a multitude of disciplines including mechanical engineering, corrosion engineering, materials engineering and welding.

Many of MACAW's Principal Engineering Consultants are able to draw on more than 25 years of industry

experience in materials, corrosion, welding and asset integrity. MACAW Engineering Ltd applies this knowledge to develop and provide cost-effective solutions to their clients with particular focus on ageing assets and maintaining operational integrity.

NDT Global GmbH & Co. KG

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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 Canada, Germany, Ireland, Malaysia, Mexico, Russia, Singapore, Spain, UAE, UK and USA.

Netherlocks Safety Systems BV

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Netherlocks supplies safety products for the oil & gas industry. Their products are used by most of the major end users in the sector to help create a safer working environment. Netherlocks are market leaders in mechanical interlocks and also manufacture several other safety products.

Pigging is one of the main applications for safety interlocks. As part of an interlocking sequence, locks on the closure and different valves, prevent opening the door when it is unsafe. All critical valves can only be operated when the closure is fully closed and locked.

A pigging operation is recognized as highly dangerous and even deadly. Locking systems are recommended to avoid human error and, subsequently, dangerous incidents.

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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.

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Online Electronics Ltd (OEL) design, manufacture and distribute a cutting edge range of products and systems employed during pipeline pig monitoring, pipeline data communication and logging operations. OEL technology is operated throughout a wide range of applications from deep-water to topside, on pipelines and in pipeline terminals, valve and pumping stations, refineries and terminals. OEL combine acoustic, electromagnetic, magnetic and ultrasonic technologies to produce innovative and flexible solutions.

The range of services enables pig tracking & signalling, pressure/temperature data logging, gauge plate condition systems, automated pipeline discharge sampling, ATEX certified products, special pipeline communication solutions, subsea voltage gradient detection and bespoke design projects.

OEL is part of the IK-Group, their HQ is based in Aberdeen, UK with offices in Dubai, UAE; Singapore and Houston, USA.

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In-Line inspection using MFL (metal loss), GEO (geometric) and DMR (direct magnetic response) are available for 3" to 42" pipelines at 3P Services. Customer applications to inspect pipelines that are considered "difficult to pig" or even "unpiggable" are a speciality of the company. There are tools for conventional (free swimming), for bi-directional (pump-in/pump-out), and pull-through operation.

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

PBJV Group Sdn Bhd

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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 assests, 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 Integrity

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Penspen Integrity 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

Integrity is independent of construction and ILLI 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 geo-hazards; Pipeline Defect Assessment Manual (PDAM); FEA, fracture and fatigue; specialist training.

Penspen Integrity 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 through Penspen Asset Management.

Pigs Unlimited International, Inc

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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 1/2"-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

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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, non-intrusive pig signallers, 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 9001:2008.

PII Pipeline Solutions, a GE Oil & Gas and Al Shaheen joint venture

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PII Pipeline Solutions is one of the industry leaders in inspection and integrity services for gas and liquid pipelines in every known environment and operating condition. From in-line inspection and integrity engineering, to revolutionary services such as UltraScan™ Duo for crack assessment and SmartScan™ for unpiggable pipelines, and powerful data management tools, they provide the comprehensive technologies, skills and experience needed to confidently determine the present and future condition of a pipeline. Their solutions go beyond defect detection to proactive risk assessment and threat management to maintain a balance of safety and productivity while helping pipeline operators meet stringent regulations. PII Pipeline Solutions operates globally as a joint venture between GE Oil & Gas and Al Shaheen Holdings, a wholly owned subsidiary of Qatar Petroleum.

**Come to the
next PPSA Seminar in
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Pipeline Cleaners Inc

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Contact (Sales): Bob Doty

Began in 1889 making industrial flue brushes. Began making pipeline brushes and steel mandrel pigs in 1936. First fully automatic pipeline brush machine in world. Can specially design and manufacture pigs to customers needs. Can manufacture all types of pipeline brushes for any type of pig.

Pipeline Engineering & Supply Co. Limited

Headquarters:

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Pipeline Engineering, a Circor Energy Company, designs, tests and manufactures pipeline pigging and flow assurance products and provides pipeline, engineering and project management services.

Pipeline Engineering supplies a full range of pipeline pigging tools, pipeline spheres, pig launchers and pig receivers, quick opening closures and pig signallers. Pipeline Engineering also designs and produces bespoke client specific polyurethane products. With fabrication, machining, polyurethane moulding and testing facilities, Pipeline Engineering provides a turnkey service for clients.

Industries serviced include oil, gas, process and renewables, where a strong reputation has been built for quality, expertise and providing project specific and innovative product and service solutions.

Pipeline Engineering is an ISO/TS 29001, ISO 9001, ISO 14001 and BH OHSAS 18001 registered company.

Pipeline Innovations Ltd

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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 Pigging Products Inc

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www.pipepigs.com

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

Pipeline Pigging 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)

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Mohamed Habbouly

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. The expertise, resources and professionalism of their engineers and technicians provides efficient performance in all areas. Completing projects on time to the entire satisfaction of their customers is a key strength.

Pipeline Services LLC (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.

Pipelines 2 Data (P2D) Ltd

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E-mail: sales@pipelines2data.com
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Pipelines 2 Data (P2D) provide pipeline pigging support management & engineering services to the Oil and Gas industry, worldwide.

As part of an overall 'pipeline healthcare' package, P2D offer a complete, intelligent, integrated, risk-averse approach to pipeline pigging.

Through a combination of P2D's ATEX certified 'smart pigging' technologies, major results can be achieved in the form of pig performance, pipeline cleanliness, preventative maintenance, safety and pipeline operating conditions.

Working alongside pipeline owners and operators, the holistic P2D approach gives customers a one-stop, trusted solution for pipeline asset integrity, flow assurance and efficiency.

Pipesurvey International CV

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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

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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.

Precision Pigging LLC

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Now celebrating 15 years in the business, Precision Pigging provides high-resolution multi-channel digital geometry/deformation inspection services. Tools range from 4" to 48" and serve both on-stream and new construction pipeline operations throughout North and South America, Europe, Asia, Australia and the Middle East. Precision Pigging's personalised single-contact project management capably offers high quality rapid on-site deployment.

With virtually no exaggeration or chatter, Precision Pigging's digital tools are capable of determining anomalies, wrinkles, buckles, ovality, expansion, valves, tees, welds, pipe wall thickness, the o'clock positioning on the pipeline wall and bend data. The company's geometry/deformation tools have a resolution accuracy to within 0.01 inch (0.254mm) for detecting anomalies. Precision Pigging proudly delivers incomparable customer service paired with exceptional technology and results around the globe.

PSI – Pipeline Services International GmbH & Co KG

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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.

PureHM

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Contact (PPSA): Shamus McDonnell

PureHM helps give pipeline companies confidence that they are delivering energy safely and reliably, by offering the highest quality solutions and data to make integrity decisions.

Their best-in-class technologies and approach provides the actionable information needed to reduce risk, by identifying problem areas, reducing unnecessary digs, and prolonging asset life, while balancing fiscal responsibility.

PureHM provides support to oil and gas companies in the following areas: direct assessment using the Spectrum XLI system, advanced pig tracking using the Armadillo system, inline inspection and confirmation of containment using SmartBall Technology, and data management services using the PipeWise platform.

Q-Inline

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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.

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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

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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

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Pipecleaning family-company since 1952, offshore since 1996. They have 20 employees with own devices manufacture and testing facilities.

Romstar Sdn Bhd

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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.

ROSEN Group

Headquarters

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ROSEN is a leading privately owned company that operates in more than 120 countries with over 2,500 employees. They are a worldwide provider of cutting-edge solutions in all areas of the integrity process chain suiting a wide range of industries: Oil & Gas, Energy, Process, Mining, Manufacturing, Telecommunications and Transportation for a wide range of assets.

For more information about the ROSEN Group, please go to www.rosen-group.com.

ROSEN offers: Pipeline cleaning tools, accessories, in-line inspection, high-resolution geometry inspection, XYZ mapping, high-resolution metal loss inspection utilizing magnetic flux leakage, ultrasound and eddy current technologies, EMAT crack and coating disbondment detection, Ultrasonic crack detection, multi-diameter and robotic pipeline inspection, leak detection, video inspection, inspection of plant and terminals, coiled tubing, flow and gathering lines, integrity management software, engineering & consultancy, inspection solutions, integrity solutions, R&D solutions, product solutions.

ROUGE Pipeline & Process Services LLC

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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.)

Shenyang Longchang Pipeline Testing Center

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Shenyang Longchang Pipeline Testing Center was founded in 1993 and provides professional pipeline services including pigging, comprehensive testing, non-destructive testing, external testing and cathodic protection operation maintenance. They offer their customers the best service and technical support.

Sriram Foams (P) Ltd

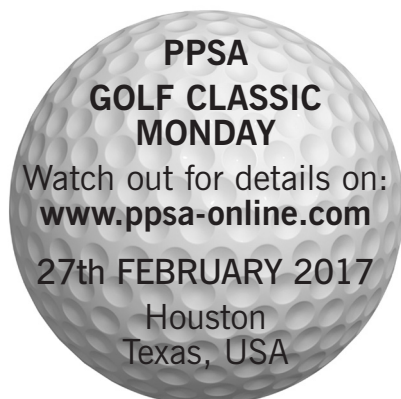
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Sriram Foams Private Limited established in the year 1999 is an ISO 9001 – 2008 company accredited by Vincotte Belgium. They have been manufacturing various types of polyurethane products for the past 15 years. They specialize in developing and producing 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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Contact: Gareth Campbell, Regional Sales Manager, Asia Pacific

STATS Group is a specialist engineering company and service provider. Their comprehensive range of products and services, enable pipeline isolation, intervention, repair, subsea and shutdown services.

Innovative solutions and proprietary technologies include: The Tecno Plug™ provides fail-safe double block and bleed pipeline isolation tools for high pressure applications while the system remains live and at operating pressure. Pipeline intervention and isolation can be achieved using STATS patented leak-tight BISEP™. The BISEP™ provides fail-safe double block and bleed isolation deployed through a single hot tap penetration.

STATS partner with major operators in the development and support of Emergency Pipeline Repair Systems to minimise the downtime of damaged pipelines. STATS Group operates globally through a network of operational bases and project support offices.

T. D. Williamson

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Offshore Services

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Drawing upon a 96-year history of industry leadership, TDW is a global solutions provider for the owners and operators of pressurized pipelines. TDW delivers a comprehensive portfolio of solutions for onshore and offshore applications, including: Pipeline cleaning; Pigging; Integrity inspection; Non-destructive evaluation; Hot tapping; Intrusive and non-intrusive isolation.

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

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Field proven, Discovery™ is the world's first 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.

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 & Specialty Services

Middle East and North Africa

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Trans-Asia Pipeline Services, headquartered in United Arab Emirates, is a leading provider of pipeline and process services to the oil, gas and petrochemical industry. Established in the United Arab Emirates in 2001, the company now has over 300 employees working in 12 countries providing a variety of pipeline and process pre-commissioning and commissioning services for the oil and gas industry. Since their inception in 2001 they have successfully executed a number of projects for some renowned oil companies and EPC contractors through their offices in the Middle East, South East Asia and Indian Subcontinent.

“Transneft Diascan”, JSC

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E-mail: postman@ctd.transneft.ru

Contact: Sergey V Ermish, General Director

Transneft Diascan was formed in 1991 and currently inspects an average of 40,000km of pipelines each year.

The company's inspection tools detect and size defects with high accuracy and applicable software calculates strength and durability of pipes with defects.

Transneft Diascan has its own test loops with both artificial defects and spools with defects taken from live pipelines. This allows it to develop its own in-line inspection tools and to enhance data analysis methods. A hydraulic facility enables the company to calculate strength and operating life by pressurization and bending tests.

Transneft Diascan also provides the following services: visual measurement testing, ultrasonic thickness measurement, acoustic emission inspection, ultrasonic flaw detection of welds and X-ray inspection of welded seams.



**FREE TECHNICAL
information service**

Email: 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.

TRAPIL

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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.

Tulsa Valve

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Contact (Sales): April Schwalbach or Greg Johnson

Tulsa Valve has been manufacturing and delivering pigging valves internationally 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

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VKV Oilfield & Pipeline Services Co Pvt Ltd

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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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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.

WeldFit Energy Group

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Contact (Sales): Roxy Mounter

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WeldFit Energy Group began over 47 years ago, building their reputation for quality and reliability. WeldFit Energy Group products are manufactured in Houston, Texas for use throughout the United States and around the world. Their full-encirclement fittings feature extruded outlets for branch sizes up to 48" NPS and fabricated branches for larger sizes.

WeldFit Energy Group specializes in the design, engineering, manufacturing and quality testing of automated pigging systems that can be utilized to perform four separate pigging functions: liquid recovery, cleaning, batching and inline inspections. The horizontally oriented launcher design is loaded with multiple pigs in one loading operation that allows the launching of a single cleaning, batching or spherical pig for both liquid and gas pipeline service applications.

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

Founded in 1990, 3X Engineering is a company specialized in pipe repair without shutdown, by external application with patented composite technology and leak repair.

Their expertise includes all industry sectors and particularly oil and gas.

They are represented all over the world by a large distribution network.

Their range of products: REINFORCEKIT 4D: Composite repair for pipe reinforcement. According to ISO/TS 24.817 & ASME PCC-2. STOPKIT: Online leak sealing. Emergency pipe repair system (EPRS). ROLLERKIT: Pipe & support protection for Corrosion Under Support (CUS). REFLANGEKIT: Online repair for SF6 leaking flange.

Bakercorp UK Ltd

RENTAL SERVICES

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Contact: Kevin Jackson

BakerCorp, the industry leader in integrated liquid management solutions, provides cost effective rental products for transfer, storage and treatment of liquids. Baker's products are designed with safety and quality as top priority, have "plug and play" features and offer great versatility for a wide range of applications. This translates into unique benefits throughout the tank, pump and filtration product lines. BakerCorp provides innovative solutions to an ever expanding number of markets that include: refinery, chemical, environmental remediation, oil & gas and terminal & pipeline.

The Clock Spring Company, L.P.

PIPELINE REINFORCEMENT SYSTEM

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Contact: Andrew Patrick

Highly effective, ingeniously simple, the Clock Spring pipeline reinforcement system redefines the economics of pipeline repair. With the patented Clock Spring system, permanent field repair and reinforcement of pipe sections weakened by corrosion or mechanical damage is easy, fast and inexpensive.

The Clock Spring sleeve is a specially developed, 0.06" sheet of high strength composite material. Its unique coil-shaped configuration creates a matrix memory which allows the Clock Spring® to wrap tightly around pipe of virtually any size. Applied with a patented fast-curing yet incredibly strong adhesive, it forms a composite wrap which actually exceeds the yield strength of the original pipe.

Cottam Brush Ltd

BRUSH MANUFACTURER

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E-mail: info@cottambrush.com

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Contact (PPSA): Ben Cottam

Contact (Sales): Steph Farries, Kathy Bevan

COTTAM Brush Ltd's specialist pipeline team supply off the shelf products for existing fleets of pigs or custom made to specification. They manufacture to suit any pig, to a 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

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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.

Fiberbuilt® Manufacturing Inc

BRUSH MANUFACTURER

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www.fiberbuilt.com

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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.

Innospection Limited

NON-DESTRUCTIVE TESTING

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Innospection Ltd is a topside, splash zone and subsea integrity support specialist. An expert in electromagnetic inspection technologies such as Eddy Current and Magnetic Eddy Current (MEC) – a further development of the SLOFEC™ technique, Innospection has delivered advanced NDT solutions and services to the worldwide process industries since 1998.

Innospection offers advanced technologies and sophisticated equipment to solve specific inspection challenges for the following: Flexible Risers & Mooring Lines; Risers; Caissons & Conductors; Subsea Pipelines;

Subsea Structures & Ship Hulls; Heat exchanger and boiler tubes; Pipes and pipelines; Pressure vessels; Storage tank floors.

Innovative Polymers Inc.

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Contact (PPSA & Sales): Mike Molitor

InnoTuf® polyurethanes double the service life of pipeline cleaning pig cups and discs according to our customers in the natural gas and oil-field services industry. The MDI ester/polyol-based polyurethanes are specially formulated for use in the energy pipeline markets, resisting damage from oil, gas and abrasion. InnoTuf oil-field polyurethanes are also easy to handle and optimize molding productivity

Jee Ltd

PIPELINE SERVICES PROVIDER

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www.jee.co.uk

Contact (PPSA & Sales): Jon Davison

Jee is a leading subsea engineering and training company with extensive experience of integrity management, inspection and pigging.

Jee has a proven track record of undertaking pigging projects worldwide at all phases of the asset lifecycle, from commissioning pigging and baseline in line inspections (ILI), through operational cleaning and life-of-field ILI campaigns to cleaning for decommissioning. They specialise in technical assurance and project management for challenging scenarios such as “unpig-gable” pipelines, subsea launch/receipt, ultra-deep-water 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.

KOTI-Dawson Ltd

BRUSH MANUFACTURER

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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

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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.

P.S.E. International Ltd

PIPELINE SERVICES PROVIDER

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P.S.E. International Ltd provides services and constructs drying equipment for the drying and cleaning of pipes in the oil and gas industries.

The company was founded by Peter Vemmelund and Kent Friborg who have over 30 years experience in: drying (drying with super dry air), vacuum techniques, cleaning and refrigeration techniques. Today PSE International is owned by Peter Vemmelund, Lars Hartvigsen and Torben Bilstrup.

P.S.E. International uses top quality measuring instruments to ensure quality of work. The drying system is specially constructed, the dry air being 100% oil free because air blowers in the compression part, operate without oil. The method of drying is well approved and used on pipelines with diameter from DN 80 (3") to DN 1400 (56") worldwide.

Pacific PAC Technologies, Inc.

MAGNETIC ASSEMBLY

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Pacific PAC Technologies, Inc. specialize in multi-component magnetic assemblies for MFL equipment, cleaning PIG, down-hole applications, especially in assembling large magnets in repelling position. High-grade magnets are selected for critical applications with tight tolerance, reliable plating protection and precise assembly. They provide seasoned engineering support, quality product, competitive pricing, on-time delivery and excellent customer service.

Shell UK Exploration & Production

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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 Sulfuryl Chloride cells from their cell partner, 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.



Visit PPSA's Web Site
www.ppsa-online.com

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Stark Pipeline Services

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Contact: Gerald Stark

Stark Pipeline Services provides a variety of services to the pigging industry including pipeline mapping and surveying, pig tracking, infield transportation, and crane. In addition to these services Stark technicians are also trained to build and refurbish smart 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.

Stark Pipeline Services uses high quality AGM boxes along with geophone equipment for consistent and accurate pig tracking. Meter and sub-meter survey capabilities are also available along with satellite mapping.

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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

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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.

The company is committed to become an international gas transmission operator, a leader on the regional energy market, with a modern national gas transmission system integrated at European level and a very competitive management system.

Vitrocell USA, Inc

BATTERY SUPPLIER

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Vitrocell USA, Inc., formerly Exium Technologies, Inc., a division of Vitrocell Co. LTD, is a manufacturer and distributor of Lithium Metal Batteries for use in Pigging and Downhole operations for the oil and energy industries. Vitrocell USA products are used worldwide in oil and gas operations, providing excellent performance and long life under extreme conditions (high temperature, shock and vibration). Vitrocell 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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Consultant for the design and manufacture of electronics for pipeline inspection. Expert in design and certification for ATEX environments.

Lincoln Austin

DP-Flow Ltd

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Provision of flow, pressure and temperature transmitters, valve positioners, pigs and pig detectors to the process, oil and gas, chemical and utility industries.

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Pre-commissioning consultancy to the subsea construction industry.

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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.

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Developer of non-destructive innovative technologies that evaluate the integrity of the materials in pipelines and other structures.

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

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Manufacturer/trader of polyurethane stud decoking pigs, foam pigs, bi-directional pigs, dewater foam.

Ran Macdonald

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Consultancy Services: Pig location, tracking, leak detection, communications surface and subsea. Any pipeline diameter any material, any product, turnkey solutions.

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Over 34 years expertise in pipeline inspection and rehabilitation services for the oil, gas, water and wastewater industries.

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