

2005

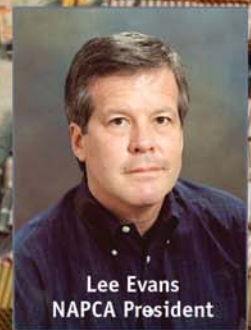
NAPCA
National Association Of Pipe Coating Applicators

Supplement

to the March issue of **Pipeline &
Gas Journal**



Printed in the U.S.A.



Lee Evans
NAPCA President

Bredero Shaw Plant in Farsund, Norway.



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PROGRAM FOR 2005 NAPCA CONVENTION

April 20-24, 2005 THE REGISTRY RESORT & CLUB NAPLES, FLORIDA

WEDNESDAY, APRIL 20

8:00 a.m. 5:00 p.m. **REGISTRATION** Crystal Foyer East
(*Courtesy Tyco Adhesives Corrosion Protection Group (Polykenfi, Powercretefi, AnodeFlex & Raychem Products)*)

8:30 a.m. **BREAKFAST BOARD MEETING** Sunset 7

12:30 p.m. 5:30 p.m. **DEEP SEA FISHING** (Bus will leave from front of hotel)

6:30 p.m. 7:00 p.m. **INTERNATIONAL RECEPTION** Luna (*Courtesy The Bauhuis Group B.V.*)

7:00 p.m. 8:30 p.m. **PRESIDENT'S RECEPTION** Sunset Deck (*Courtesy Associate Members*)
DINNER ON YOUR OWN

THURSDAY, APRIL 21

7:45 a.m. 9:00 a.m. **LINE PIPE MANUFACTURERS' CLOSED MEETING AND BREAKFAST** Leader Rusty Fisher, Chairman, Line Pipe Manufacturers Committee and Vice President, Line Pipe Sales, Lone Star Steel Company, Dallas, Texas Sunset 7

7:45 a.m. 9:00 a.m. **COAL TAR COATINGS BREAKOUT SESSION AND BREAKFAST** Leader George D. Stoddard, President, Mobile Pipe Wrappers and Coaters, Inc., Adelanto, California - Grande 1-2

7:45 a.m. 9:15 a.m. **MEN'S AND LADIES' CONTINENTAL BREAKFAST** - Crystal Foyer
(*Courtesy CRC-Evans Pipeline International, Inc./PIH, Inc. and Caterpillar, Inc.*)

8:00 a.m. 5:00 p.m. **REGISTRATION** Crystal Foyer East
(*Courtesy Tyco Adhesives Corrosion Protection Group (Polykenfi, Powercretefi, AnodeFlex & Raychem Products)*)

8:30 a.m. 11:30 a.m. **"NAPLES PRINCESS CRUISE"** (Bus will leave from front of hotel)

9:15 a.m. **SPOUSE EVENT**
GENERAL SESSION Crystal 1-3
President's Report Lee Evans, Vice President, ShawCor Pipe Protection LLC, Houston, Texas
Managing Director's Report Merritt B. Chastain, Jr.
Introduction of Speaker James T. Shea, Managing Partner, Operations, The Bayou Companies L.L.C., New Iberia, Louisiana and 2005 Business Program Chairman
"GAZING INTO THE CRYSTAL BALL ECONOMIC OUTLOOK FOR THE NEXT TWO YEARS"
Speaker Dr. Loren C. Scott, Economics Professor Emeritus, Louisiana State University and President, Loren C. Scott & Associates, Inc., Baton Rouge, Louisiana

10:30 a.m. **COFFEE BREAK** Crystal Foyer (*Courtesy Universal Minerals International, Inc.*)

10:45 a.m. **"THE GLOBAL STEEL INDUSTRY IN 2005. THE OPPORTUNITIES AND THREATS EXISTING FOR U.S. PIPE PRODUCERS IN THIS MARKET"**
Speaker - Dr. James David Ley, Metals Analyst, Metal Bulletin Research, London, England, United Kingdom

11:30 a.m. **LUNCHEON FOR EVERYONE** Sunset Deck (*Courtesy John Deere World Wide Construction & Forestry Division*)

12:30 p.m. **GIN RUMMY TOURNAMENT** Sunset 7 (*Courtesy H.M.S. Corporation*)

7:15 p.m. 8:15 p.m. **RECEPTION** Crystal Foyer (*Courtesy Reilly Industries, Inc. and Hempel Coatings (USA), Inc.*)

8:15 p.m. 11:15 p.m. **"NAPCA HOT LATIN NIGHTS"** Crystal Ballroom South American theme in laid-back, fun atmosphere including refreshments, meal, dancing and great entertainment by a Latin band and dancers (*Courtesy Pipeline Inspection Co., Ltd. and DuPont Powder Coatings /Nap-Gard Pipe Coatings as principal sponsors. Other sponsors are American Steel Pipe Division of American Cast Iron Pipe Company, Dura-Bond Pipe LLC, IPSCO Inc./IPSCO Tubulars Inc., Lone Star Steel Company, Maverick Tube Corporation, Oregon Steel Mills, Inc., Stupp Corporation and US Steel Tubular Products*)

FRIDAY, APRIL 22

7:45 a.m. 9:30 a.m. **MEN'S AND LADIES' CONTINENTAL BREAKFAST** Crystal Foyer (*Courtesy The Valspar Corporation and Wheelabrator Grp.*)

7:45 a.m. 8:45 a.m. **PLURAL COMPONENT BREAKOUT SESSION AND BREAKFAST** Leader Michael A. Romano, Director of Business Dev., Tyco Adhesives Corrosion Protection Grp. (*Polykenfi, Powercretefi, Anodeflex & Raychem Products*), Houston, TX - Crystal 8

9:30 a.m. 2:30 p.m. **"MIROMAR OUTLETS SHOPPING AND LUNCH"** (Bus will leave from front of hotel)

9:00 a.m. **SPOUSE EVENT**
GENERAL SESSION Crystal 1-3
"U.S. GAS MARKET AND NEW PIPELINE CONSTRUCTION"
Speaker Bart Heijermans, Senior Vice President, Offshore and Gas Storage, Enterprise Products L.P., Houston, Texas

10:00 a.m. **COFFEE BREAK** Crystal Foyer (*Courtesy Universal Minerals International, Inc.*)

10:15 a.m. **"THE PROFIT STRATEGY"**
Speaker John F. Graham, Chief Operating Officer, Pipeline Insp. Co., Ltd. and President, Frontline Resources, Inc., Houston, Texas

11:45 a.m. **GOLF LUNCH AND GOLF TOURNAMENT** Naples Grande Golf Club (*Lunch, green fees, carts, refreshments and prizes courtesy 3M Company and Specialty Polymer Coatings, Inc.*) (Buses will leave from front of hotel at 11:45 a.m.)

7:15 p.m. 8:15 p.m. **RECEPTION** Mangrove Pool (*Courtesy Nordson Corporation and CANUSA-CPS*)
DINNER ON YOUR OWN

SATURDAY, APRIL 23

7:45 a.m. 9:15 a.m. **MEN'S AND LADIES' CONTINENTAL BREAKFAST** Crystal Foyer (*Courtesy CRTS, Inc. and Wheelabrator Abrasives, Inc.*)

7:45 a.m. 9:00 a.m. **FUSION BONDED EPOXY COATING BREAKOUT SESSION AND BREAKFAST** Leader Jason Norris, Sales Manager., Dura-Bond Coating, Inc., Export, Pennsylvania - Crystal 1

8:00 a.m. 9:00 a.m. **TAPE COATINGS BREAKOUT SESSION AND BREAKFAST** Leader Richard F. Brunst, Jr., President, Western Pipe Coaters & Engineers, Inc., Orem, Utah - Sunset 7

9:30 a.m. 1:30 p.m. **"EAST INDIES WAREHOUSE SHOPPING AND LUNCH"** (Bus will leave from front of hotel)

9:15 a.m. **SPOUSE EVENT**
CLOSED SESSION REGULAR MEMBERS Crystal 8

9:15 a.m. **CLOSED SESSION** ASSOCIATE MEMBERS Crystal 2-3

10:15 a.m. **BOARD OF TRUSTEES MEETING** Crystal 8

12:15 p.m. 5:30 p.m. **SPORTING CLAY SHOOT** (*Courtesy Ervin Industries, Inc. and Metal Parts and Equipments Co.*)
(Bus will leave from front of hotel)

1:00 p.m. 5:00 p.m. **TENNIS TOURNAMENT** Resort Tennis Courts

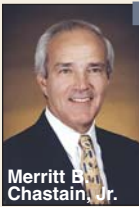
7:15 p.m. 8:15 p.m. **RECEPTION** Laliq Foyer (*Courtesy Jotun Powder Coatings A/S*)

8:15 p.m. **FINAL BANQUET** Laliq Ballroom (*Entertainment and wine courtesy BASF NAFTA*)

ALL CONVENTION TRANSPORTATION (*Courtesy Dun Transportation & Stringing, Inc., T.G. Mercer Consulting Services, Inc. and Montgomery Trucking, Co.*)
ALL CONVENTION AUDIO-VISUAL REQUIREMENTS (*Courtesy Universal Minerals International, Inc.*)

Members Of The National Association Of Pipe Coating Applicators Exert An Edifying Influence Over Worldwide Industry

Since Its Founding In 1965, The In-Plant Coating Association Has Seen Its Membership Rolls Grow As It Focuses On Fundamental Objectives Of Stimulating Use Of Permanent Coating Facilities, Standardizing Application Specifications And Demanding High Workmanship And Ethical Standards



Merritt B. Chastain, Jr.

The National Association of Pipe Coating Applicators (NAPCA) continued to deliver benefits to both the pipeline and energy industries during 2004. As they have every year since the Association's founding in 1965, the members exerted their influence by performing quality work in safe and healthy environments while encouraging broad cooperation in areas of general concern.

OBJECTIVES

The Association's objectives, business standards and ethics adopted and listed in the bylaws, are as follows:

"The Association shall seek to promote the general welfare of the plant pipe coating application industry; to stimulate the use of plant-applied pipe coating and related materials; to standardize and improve specifications and materials; to aid consumers and manufacturers in their coating material research; to cooperate with other industries and organizations; to disseminate information to the members of the plant-applied pipe coating application industry, its customers and the public; and to encourage high standards of workmanship and business ethics in the plant pipe coating industry and particularly among its members, such business standards and ethics to include, but not be limited to, the following:

- To conduct business using good business practices so as not to commit any misrepresentation to a customer or anyone else;
- To abide by the customer and/or NAPCA specifications applicable to each job;
- To conduct one's business with financial responsibility;
- To not deviate from the high standards of performance generally accepted in the plant pipe coating industry."

CURRENT OFFICERS

NAPCA officers this year are Lee Evans, President; James T. Shea, Vice President; and Steve O. Carlson, Secretary/Treasurer. Evans is vice president of ShawCor Pipe Protection LLC, Houston; Shea is managing partner-

operations, The Bayou Companies, L.L.C., New Iberia, LA; and Carlson is a vice president and director of Commercial Resins Company, Tulsa, OK.

BOARD OF TRUSTEES

Trustees of NAPCA, serving along with the officers mentioned above, are Merry L. Brumbaugh, Larry McKinney, Jason Norris, and Rick Schok. Also, Joseph H. Hoffman serves as advisory trustee and associate member chairman and Peter Blome serves as foreign member chairman.

Merry L. Brumbaugh is vice president, Tubular Products, L.B. Foster Co., Pittsburgh, PA; Larry McKinney is general manager of Womble Company, Inc., Houston; Jason Norris is sales manager for Dura-Bond Coating, Inc., Export, PA; and Rick Schok is owner of Flowline Alaska, Fairbanks.

NAPCA MANAGING DIRECTOR

L.B. Irish (now deceased) served as the Association's managing director from 1967 until April 1979 when Merritt B. Chastain, Jr., assumed the duties and continues to serve. Chastain also has represented NAPCA as its general counsel since 1971. Richard F. Johnston serves as executive secretary.

RECOMMENDED SPECIFICATIONS

A complete list of current recommended NAPCA specifications, covering a broad range of plant-applied coatings, a recommended practice for surface cleanliness of pipe received at the coating plant and other matters appears on the Association's page on the Web at <http://www.napca.com/specifications.html>.

MEMBERSHIP CLASSES

NAPCA has seven membership classes. Qualifications for membership in each class are:

Regular member. Any business entity located in the U.S.A. primarily engaged in the application of protective pipe coatings to steel pipe at permanently established facilities employing permanently located equipment, which pipe is to be used for the construction of distribution and/or transmission pipe lines (as those terms are customarily defined in the oil and gas industry) for crude oil, natural gas and associated prod-

ucts and other hydrocarbons, including any business entity which applies concrete weight coatings.

Affiliate member. Any business entity located in the U.S.A. which would otherwise qualify for regular membership, in which at least a majority of ownership thereof is held by or is the same as a regular member. Companies qualifying for affiliate membership shall not be eligible for regular membership, except as provided for immediately below. Any company qualified to be an affiliate member may elect to be classed as a regular member and pay dues as such with all the rights and privileges thereof, except it shall have no vote in association affairs.

Foreign member. Any business entity located outside the U.S.A. engaged in a substantial way in the application of protective pipe coatings to steel pipe at permanently established facilities employing permanently located equipment, which pipe is used for the construction of distribution and/or transmission pipelines (as those terms are customarily defined in the oil and gas industry) for crude oil, natural gas and associated products and other hydrocarbons, including any business entity which applies concrete weight coatings or insulation coatings.

Associate member. Any business entity located in the U.S.A. engaged in the manufacture or sale of materials, supplies, equipment or services used by applicators of protective pipe coatings, any steel pipe manufacturer located in the U.S. which manufactures pipe coated by business entities qualified to be regular or foreign members and any distributor of new steel line pipe located in the U.S.A. which maintains a substantial inventory of such pipe in stock.

Foreign associate member. Any business entity located outside the U.S.A. which otherwise meets the qualifications for associate membership set forth above and any registered agent of a foreign steel pipe manufacturer which meets the qualifications for foreign associate membership.

A listing of members is included in this issue. Other association member classes are industry member and honorary member.

Industry member. Any individual regularly employed as a consultant or as an employee,



officer, director or elected official of any corporation, governmental unit, or other entity interested in the end use of coated pipe.

Honorary member. Any employee or former employee of a regular or associate

member approved by the majority of the board of trustees for his or her contribution to the Association.

Honorary members include I.H. Perry, John B. Wilson, R.J. Young and John H. Royston. *P&GJ*

Hall of Fame Members

NAPCA's Hall of Fame award can be awarded to members or non-members, living or deceased. Annually, members may nominate individuals for this honor. Then, a select committee, consisting of the board of trustees, associate member chairman, managing director and all living recipients of the award, selects recipients of the Hall of Fame award, if any, by secret written ballot. Since its inception in 1965, NAPCA has honored the following with its Hall of Fame award:

- | | |
|-----------------------|--------------------------|
| R.E. Henry | Tom Fauntleroy |
| W.C. Hall, Sr. | John H. Royston |
| G.W. Abernathy | Robert C. (Bob) Stephens |
| Robert P. White | Bob Theisen |
| W.W. Hay, Jr. | Jerry E. Shea, Sr. |
| Joe Cunningham | Ronald E. Carlson, Sr. |
| E.R. Anderson | Robert W. Sagle |
| C.W. Pillow | E.A. (Tony) Lawson |
| W.E. Rowland | S.J. Gaido |
| L.B. Irish | John E. Pfeiffer |
| James D. Porter | George B. Wren, Jr. |
| William G. Creel | Joseph H. Hoffman |
| John M. Holliman, Jr. | Merritt B. Chastain, Jr. |
| Robert Nee | Mike Reizer |

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President's Message

Pipe Coaters Win By Shining A Bright Light On Managing Employee Safety

by Lee Evans, NAPCA President and Vice President, ShawCor Pipe Protection LLC, Houston, TX.



Lee Evans
NAPCA
President

The coating industry and associated businesses represented by NAPCA have always been considered relatively dangerous, high-risk activities. Think about it: we have said for years that "things happen" and "when you work in this business you have to expect people to get hurt." But the facts in recent years would contradict this dated philosophy and misplaced rationalization.

Consider the Department of Labor statistics for the industry group to which we pipe coaters belong. From 1994 to 2003 the total number of workplace injuries and illnesses has dropped by 45%. The number of workplace injuries that has resulted in lost work days has declined by more than 37% over the same nine-year period. Impressive, you might say. But before we pat ourselves on our collective backs let us consider what is left to be

done. This improvement, while commendable, has still resulted in a total of 4,200 people injured on the job in 2003. Think about how you would explain to those 4,200 people, and their families, how much better we are doing.

The challenges facing us are considerable. There are in excess of 25 coating yards in the U.S. alone. Consider the hundreds of distributor's pipe storage/stocking yards and small supply stores manned by thousands of workers. Hundreds of thousands of truckloads loaded and unloaded. Thousands of rail cars, scores of barges and ships. Millions of tons of pipe handled essentially one joint at a time. Take a safe round number of 4 million of joints handled, say an average of five times prior to installation, there are 20 million opportunities for an accident or injury.

Our plants and pipe yards are in constant movement, full of heavy machinery and the resultant potential risks are sig-

nificant. We must coordinate efforts between contractors, trucking companies and other temporary site workers, and at times we face high employee turnover in many of the at-risk job positions. And there is the ever-present pressure of productivity and profit.

There are, however, compelling reasons to make the necessary changes to eliminate workplace injury and illness. Among the reasons are it is our moral responsibility to keep our employees from harm; it is our legal responsibility; and it is good for business.

MORAL RESPONSIBILITY

One of the key mandates of our jobs as managers and owners is the absolute necessity to assume ownership and responsibility for the safety and well being of those in our employ. Who else can be responsible? To be effective, this responsible ownership must take the form of management leadership, visibility in the work-

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place, and a consuming commitment to eliminate all sources of injury and illness. Employees will work and perform to the level of excellence required by and demonstrated by management.

Nowhere is this more apparent than in the field of occupational health and safety. Employees need and welcome management leadership and participation in all matters of safety, particularly in workplace observations and recognizing good behaviors. Furthermore, they respond to it and become a self-sustaining improvement force if supported in their efforts. In our company, this behavior is expected and required of management, and their participation and leadership is measured monthly, and reviewed by the President and Corporate Leadership Team.

LEGAL RESPONSIBILITY

Regulatory requirements are becoming more and more comprehensive and demanding, and with those come increasingly severe penalties for non-compliance. Management and supervisors are clearly considered

responsible for the protection of personnel and the environment. Over the past few years it has become quite common to read about huge fines and jail time being levied on corporations and individuals for environmental infractions under the various federal EPA statutes. As recently as September of last year the operations manager of an electroplating facility was charged with illegal discharges. He now faces personal fines of more than \$500,000 and nine years in jail.

Up to now, OSHA has limited itself to monetary fines against errant companies cited for non-compliance. There is a growing movement to give OSHA enforcement powers similar to those of the EPA.

This could result in civil fines and jail time against individuals who fail to provide employees with a safe and healthy workplace. Earlier this year, a contract maintenance worker was severely burned when a corroded pipe nipple blew out of a boiler. The contractor had been called in to repair it because the company maintenance personnel were afraid to attempt repairs due to the corroded nature of the connection. However, they did not advise the contract mechanic of the hazard. As a result of the incident, the company was sued and a \$12 million judgment issued against them.

GOOD BUSINESS

Then there are our clients who are scrutinizing safety performance more and more closely on many contracts. They no longer just ask a few questions. They now actively participate in the safety process and audit to verify we are doing what we say and what they want. As a case in point, a major oil and gas company now has a policy that they will not work with contractors who have a Total Recordable Incident Rate above 3.5 (per 200,000 man hours following OSHA calculations).

Clearly, a workplace where employees see and believe that management is involved and cares about them will be a motivated and efficient workplace. This will lead to lower costs, better vertical communication, improved morale and better safety performance.

As a case in point, just over three years ago, we at Bredero Shaw embarked on a journey to raise the level of involvement, responsibility and accountability of management in the HSE process. Our goal is to eliminate workplace incidents and injury. That's right, I said eliminate. With that clear vision, and the implementation of a HSE program that demands and requires management input and leadership, the U.S. operation has seen total incidents and lost-work-case incidents drop by more than 50%. At the same time, our current year worker's comp incurred costs are more than \$500,000 less per year than they were three years ago.

Finally, I have been amazed at the profound impact we can have on our staff. Employee perception surveys indicate a workforce that recognizes management commitment to improving HSE. They see management accepting responsibility for safety and they are appreciative of the improvements made to their personal well being. In return, they are delivering improved efficiency and offering continued suggestions for raising our game.

That is good for business. **PE&G**



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Three Leaders Discuss Challenges And Opportunities In Pipe Coating Industry

Steve O. Carlson, Commercial Resins Company, Tulsa, OK; Rick Schok, Flowline Alaska, Fairbanks, AK; and Keith Coulson, Jotun Powder Coatings A/S, Scunthorpe, UK, Discuss Their Careers And Their Companies With Lew Bullion, Senior Editor, *Pipeline & Gas Journal*

Steve O. Carlson Was Present At The Beginning



Steve O. Carlson
Commercial Resins Company
Tulsa, OK

Steve O. Carlson is now retired from his position as an operating officer of Commercial Resins Company, Tulsa, but he retains an ownership interest and holds the position of vice president and director.

He serves on the board of trustees of NAPCA, helping direct the affairs of the industry's influential trade association employing the insights gained from almost three decades of pipe-coating experience.

He was born in Titusville, PA and studied geology at the University of Oklahoma. He graduated with a B.S. degree in education. After 15 years teaching chemistry and other sciences at Will Rogers High School in Tulsa, Steve joined his brother Ron at Commercial Resins Company.

His work with Commercial Resins has included construction and operation of the 24-inch FBE plant in Tulsa; managing Resource Engineering and Manufacturing, a company formed to construct coating plants worldwide; and general administration of the company. Steve continues to serve as director.

NACE Instructor

For the past 10 years, Steve has supported his membership in NACE International by teaching Level III Courses at the Annual Midwest Regional Training Seminar. At the Great Bend, KS seminar he teaches "In Plant Application, Specifications and Quality Control for both ID and OD surfaces." He also organizes demonstrations of girth weld coating applications including FBE, tape and shrink sleeves.

Steve is married to the former Nancy Hempel Smart. They were married on Oct. 16, 1999. In his retirement, his outside interests include golf, wood-working and helping Nancy with landscaping and gardening at their home in Tulsa.

Commercial Resins was founded in 1967 by Ronald E. Carlson, Sr., when FBE coatings were beginning to appear on large-diameter gas pipelines. Girth welds were immediately seen as the weak link in FBE application.

The new company set out to correct this by developing a fleet of self-propelled air compres-

sors that would sand blast and spray apply two-component liquid epoxy coatings. The corrosion engineers of Tennessee Gas Pipe Line headed by Leonard Choate wanted a machine that would deposit FBE powder around the weld with a uniform deposition rate from top to bottom. It would require a portable electric induction heating coil with considerable horsepower and a fluidized bed that would flock the powder uniformly and without the need for cumbersome electrostatics.

First Field Application

The first spread of coating equipment was tested on a TGPL 36-inch pipeline in Louisiana and soon the liquid epoxy methods gave way to powder for coating girth welds on large-diameter pipelines.

The company expanded into other areas of the corrosion-coating field but remained true to its origins by continuing to improve its weld-coating equipment. Without leaving the inside of the pipe to chance, Commercial Resins responded to a request from Tennessee Gas Pipe Line to develop the means to also coat the inside surface of the weld during construction.

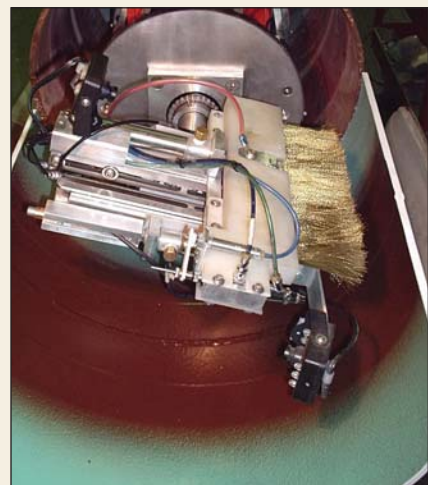
From the early, somewhat crude robots tested on TGPL pipe at Grand Isle, LA the technology has continued to develop until today, 25 years later, it is possible to clean and coat at higher production rates and higher quality levels than ever thought possible.

The technology continues to develop. Effective in 2004, the coated internal field joint can be tested for coating thickness and have a high voltage holiday inspection sweep. In addition to the real-time video monitoring process for quality control, a digital video record becomes part of the customer's permanent project file.

Because of the success of their FBE coating plant in Tulsa, Commercial Resins has constructed and installed 25 coating plants in Australia, South Africa, Colombia, U.S., Saudi Arabia, Dubai, Qatar, Abu Dhabi, China, Mexico and the United Kingdom, among others.

True Innovators

The employees of Commercial Resins have been true innovators in corrosion protection of pipelines and, throughout the years, the



(Photo courtesy of CRTS, Inc., Tulsa — Formerly Commercial Resins Technical Services)

This photograph of the Internal Field Joint Inspection Robot shows holiday detector brush on the right and electronic coating thickness gauge on the left. Two of the six video cameras on board are visible bottom right and top left.

company has been the way-station of many of the leaders in our industry today.

As a continuous supporter of NAPCA, six of the company's personnel have been past presidents, officers and directors and two have been inducted into the Hall of Fame. Five of the company's current or divested businesses remain active as members of NAPCA, including Commercial Resins, Midwestern Pipeline Services, Flowline Alaska, Commercial Coating Services International, and CRTS, Inc.

We at Commercial Resins see a bright future for the pipe-coating industry. We will continue to improve and develop our core pipe-coating technologies and special added services for our customers. Our partnership with Maverick Tube allows us a base of operations in the central U.S. From this base we are expanding into the Rocky Mountain region and other strategic locations in the Western Hemisphere.

As we move forward, NAPCA will always have a significant role in our industry-wide relationships. We thank the many NAPCA members, suppliers and friends that have supported the efforts of Commercial Resins through the years. **P&GJ**



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Rick Schok,
Flowline
Alaska, Inc.
Fairbanks, AK
He spent the next 15 years working for H.C. Price in its pipe-coating division.

Rick Schok, owner of Flowline Alaska, Inc., was born and raised in Philadelphia, PA. In the summer of 1965 while attending Villanova University he was hired by H.C. Price Company as a tallyman to count pipe for a 42-inch diameter pipeline project for Transcontinental Pipeline Co.

"I learned the pipe-coating business from the ground up while working for Price Company. I worked in plant operations, quality control, sales, project management and senior management.

"In early 1981, when Harold Price sold the coating division to a European firm, I was vice president of North America and living in Houston and decided to leave the company."

North To Alaska

Rick continued, "I wanted to open my own company and decided Alaska was a great place to raise a family, and Alaska offered excellent business opportunities with the completion of the Alyeska Pipeline, and the continued development of Prudhoe Bay and the surrounding oil fields."

Later in 1981 he teamed up with Ron

Carlson's Commercial Resins Company and started a company in Fairbanks called Flowline Alaska. "We were awarded our first job for the North Slope oil producers (at the time, ARCO) and started operations in early 1982. Three years later, I bought out the Commercial Resins' interest in Flowline Alaska."

The majority of the work that Flowline does in Alaska is the pre-insulation of gathering lines that flow from the completed oil wells to the oil processing centers and eventually onto Pump Station #1 of the 48-inch diameter Alyeska Pipeline. The pipeline extends some 800 miles north to south through the state from Prudhoe Bay to Valdez. Through the years, the company has insulated more than 2,500 miles of pipe.

"Today, as part of our service menu to the field operators, we still pre-insulate pipe of all sizes (the largest being 60 inches in diameter), have a double-jointing plant, apply fusion-bonded epoxy coatings, and have a state-of-the-art pipe fabrication facility used to build pre-engineered pipe spools and the construction of truck transportable oil process modules."

"We also have a sister company, Arctic Pipe, that has contracts with the Public Health Service to insulate pipe for water and

sewer lines used in villages throughout Alaska. Flowline Alaska also had a joint venture with Moscow, Russia — MOSFLOWLINE — that began operations in 1992. The plant in Moscow manufactures pre-insulated pipe for residential and commercial hot water systems throughout the country."

And "We also periodically do a little sport fishing in the state."

Since late 1977 when oil first started flowing through the Alyeska pipeline on its way to the Lower 48, North Slope operating companies have continued to expand and find new fields to help offset the decline of the giant Prudhoe Bay oil field. The original Prudhoe Bay oil field extended 15 to 20 miles east to west. Today, the developed oil fields extend 100 miles east to west.

Schok says, "Over the past 20 plus years our business has grown and diversified, and two of my four kids who grew up in Alaska are now working for the company. We take great pride in our attention to quality, always meeting our clients' delivery schedules, and being as reliable as Mount McKinley is large.

"We look forward to the future with the probability of a gas line being built one day and hopefully winning the never-ending battle to open just a tiny portion of the Arctic National Wildlife Refuge (ANWR) to oil and gas development." *P&GJ*

Keith Coulson Is At Peak Of Notable Career



Keith Coulson
Jotun Powder
Coatings A/S
Scunthorpe, UK
Birmingham, England) where he graduated with a master of science degree.

Keith Coulson's 30-year career in the pipeline business has encompassed a wide range of activities relating to both pipeline protection and maintenance. His early formal education took place at the University College of Swansea (Wales) and the University of Aston (Birmingham, England) where he graduated with a master of science degree.

His initial activities saw him undertake Corrosion Research Studies at the British Steel Laboratories in the UK before accepting a position with the Alberta Gas Trunk Line Company (later NOVA and now TransCanada) in Canada. Here he served in a variety of technical and managerial roles, both within Canada and overseas. Through the consulting arm of NOVA, he was active in numerous domestic and overseas pipeline projects accepting short-term assignments in Malaysia, India, Pakistan, Australia, Japan, Thailand, throughout Europe and the U.S.

His initial responsibilities at NOVA were in

pipeline coating evaluations. It was at this time that he helped organize the initial Canadian Standard Association's (CSA) Work Team that — in 1983 — started preparing national standards for plant-applied external pipeline coatings.

First English Language Standard

The first Canadian pipeline coating standard for fusion-bonded epoxy (FBE) was published in 1986 and marked a major milestone in the development of international pipeline coating standards, as the CSA document was the first English language national standard to be published in the world. This standard ultimately laid the foundation for a series of publications of FBE specifications from NACE, API and the Australian Standards Association.

Under Keith's direction as chairman of the CSA Pipeline Coating Committee, they subsequently published in 1992 another pipeline coating standard. This additional specification was for the plant application of external extruded polyethylene coatings.

Both the FBE and extruded polyethylene documents have since undergone several reviews and revisions with both documents re-issued in 1998 and 2002. For this work he

has been awarded both the CSA Certificate of Recognition for Pipeline Materials Standards and Certificate of Achievement for Pipeline Standards.

In the late '90s, the International Standards Organization (ISO) began to recognize the benefits of having pipeline coating standards. The ISO group responsible for writing standards initially highlighted three coatings for consideration: three-layer extruded polyethylene, fusion-bonded epoxy, and field joint coatings.

Since that initial review, both the two-layer extruded polyethylene and external concrete coatings have been added to the list of coatings that ISO is going to be preparing as material standards. To this end, Keith was invited to head the ISO TC67/SC2 group responsible for preparing the standard on FBE coatings. This work has progressed smoothly with representatives from the U.S., Canada, UK, Germany, Italy, France and Norway contributing to the preparation of the first draft standard. This effort, which includes coating manufacturers, coating applicators, specifiers, consultants and end users from all over the world, will hopefully lead to the publication of the first



ISO Pipeline Coating Standard.

In addition to pipeline coatings, Keith's involvements have extended to a wider spectrum of pipeline corrosion and management activities including stress corrosion cracking, corrosion assessment techniques, pipeline integrity, quality management systems and supplier assessment techniques.

His paper on the effect of pipeline coatings on the stress corrosion cracking (SCC) of high pressure pipelines was awarded the American Society Of Mechanical Engineers Outstanding Conference Paper Award at the 1993 ASME Offshore and Arctic Engineering Conference in Glasgow, Scotland.

Keith Coulson is a strong advocate for the development of international pipe coating and material specifications and quality management systems — for example, ISO 9001-2000 — and he believes that this has had a major influence in improving the relationships in the pipeline-coating industry between the applicator, material suppliers and the customers.

One of the major challenges that the coating application industry has had to face over the decades is the difficulty of having to operate with completely different material and quality standards from project to project. As has been seen in Canada, this inconsistency can be overcome when specifiers invoke the use of a National Material Specification and a Quality Management System Standard which not only ensure the consistency but also the integrity of the finished product. Hopefully, the issuance of the ISO Pipeline Coating standards will have the same effect globally.

After more than 22 years at NOVA/TransCanada in Canada, Keith retired in 1999 from the business of building and operating pipelines. However, he subsequently accepted the position of vice president of Jotun Powder Coatings in North America. The position initially took him from Calgary to Houston and now to London where he is Regional Manager for the Functional segment in Europe.

Jotun Powder Coatings

Jotun Powder Coatings is a division of the Jotun Group that was started by Odd Gleditsch Sr., as a supplier of paints and protective coatings to the Norwegian whaling fleets in 1920. Since then Jotun has expanded to become a leading manufacturer of protective coatings with an international network of production plants and sales offices encompassing over 35 nations in Scandinavia, Europe, Turkey, Middle East, Far East, Australia, North and South America and Africa.

The company now employs over 4,000 people worldwide and is a global supplier of powder coatings. In addition to supplying conventional powders and anti-corrosion products for pipelines, Jotun Powder Coatings supplies powder coatings for the architectural and industrial sectors. Jotun Powder Coatings also has recognized that over the last decade or so


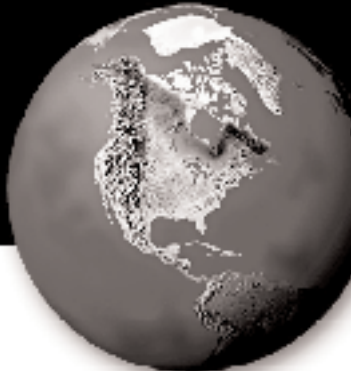
the frontiers of energy have been expanding into more demanding and difficult environments, for example, deeper subsea pipelines in the Gulf of Mexico. In a number of these new frontiers conventional products were not "man enough" to meet the new demands of high temperatures and more vigorous handling requirements such as reel barge construction.

As required, Jotun Powder Coatings' technical development centers in Norway and Dubai

worked with the pipeline construction companies, specifiers and applicators to develop new products which would meet these new demands. One such new and innovative concept is the high temperature powder technology that allows FBE coatings to withstand operating temperatures of up to 150 degrees C.

Oddly, while Jotun is at the leading edge of technology development, the company is probably best known for supplying products


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that protect internationally famous landmarks such as the Eiffel Tower in Paris and the world's tallest hotel, Burji Al Arab Hotel in Dubai, from the ravages of corrosion.

Sharing Knowledge

Coulson believes that it is of paramount importance to continue to engineer new, innovative and pragmatic solutions to the challenges that the pipeline-coating industry con-

tinues to encounter. However, we should also share this new knowledge not only for the use of today's engineers but as a succession plan to ensure that the new generation of engineers and scientists are aware of the challenges and solutions that went before them.

Coulson has demonstrated this willingness to share information by being the author of more than 20 publications on pipeline corrosion, quality management systems and sup-

plier performance programs. Keith feels that this type of teamwork will best serve the industry for its future challenges.

As he has twice coached teams to the Gold Medal at the Canadian Soccer Championship, it is not unexpected to find Keith frequently utilizing sports analogies to press home a point or concept about the importance of teamwork when making presentations to accompany one of his many technical publications.

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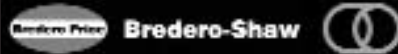
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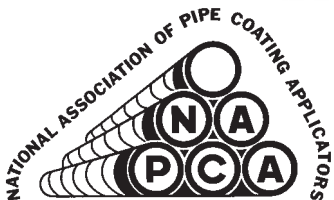


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