



JET
NEWS
APRIL, 1987

Post Office Box 19057 • St. Paul, MN 55119, USA • 612/ 731-1227

Call for Papers

FOURTH U.S. WATER JET CONFERENCE
August 27-28, 1987
University of California, Berkeley

The Fourth U.S. Water Jet Conference will be held on August 27-28, 1987, at the University of California, Berkeley. It will focus on three areas: advances in fundamental understanding of fluid jet interactions with solids; new developments in the application of water jets; and field or factory experience in mining/civil engineering and manufacturing engineering.

Papers are invited on such areas as fundamental and applied research, jet-assisted cutting, mining and rock excavation, concrete cutting, abrasive jet machining, factory applications, advances in abrasive and nonabrasive water jets, and cleaning.

Information about exhibitions, industrial support, and conference organization may be obtained from Nanette Pike, University of California Extension, 2223 Fulton St., Berkeley, CA 94720; (415) 642-4151.

Mellish Enterprises Welcomed as New Member

WJTA is pleased to welcome Vincent K. Mellish, President, Mellish Enterprises, Boca Raton, Florida, as one of our newest members.

Mr. Mellish writes: "We've researched and developed an absolute unloader valve which is currently on the market. It ranges from 0 to 20,000 PSI and unloads the pump, line, and gun to near 0 PSI when not in operation."

To be more specific: "the 'Absolute Unloader Valve System' was developed in response to a growing demand in the industry for a reliable unloader/regulator valve." Mr. Mellish was kind enough to enclose a specification sheet, which listed the following product advantage: "1. Full system pressure relief (gun, lines, & pump); 2. Reduced system wear; 3. Compact design; 4. Minimal internal moving parts; 5. No large springs; 6. Maximizes pump output; 7. Allows the use of dead stop guns; 8. Allows operator more mobility; 9. Protects operator from the hazard of a pressurized work line."

As the data continues it states that "the key to the valve operation is the fulcrum, which is connected to the piston

and the bypass valve. This unloader requires an average of only 2% of the system pressure to operate the valve. This advantage is due to the large ratio area of the piston to bypass and the leverage of the fulcrum. The operating pressure is provided by the baffle, which in adjusting the spring tension, provides a sufficient restriction to create a pressure drop above the piston. When the piston rises, the bypass closes, the system pressure increases, and the excess water is pushed out through the bypass.

"In multigun operation, this excess water is automatically transferred to the second gun.

"On closing the gun, a pressure increase above the piston causes it to move down, opens the bypass, and reduces the whole system to near zero pressure."

For more information, contact: Mellish Enterprises, Post Office Box 4005, Boca Raton, FL 33429-4005, or call (305) 368-3811.

Again, we are pleased to welcome Mr. Mellish and introduce his new product to you.

Mission Statement

We have been asked by many members and readers to publish the association's "Mission Statement".

The Water Jet Technology Association was created at the 2nd U.S. Water Jet Conference, held on the Campus of the University of Missouri-Rolla, in 1983. The Association was created by members of the water jet industry, acting in concert with University faculty and government officials. While the major impetus to the creation of the Association was to provide a means of service and communication within the industry, as epitomized by the bi-annual Waterjet conferences, formal objectives of the Association have been adopted and these are as follows:

1. To provide a means of cooperation between government, industry, university and research institutions on all matters of fluid jets including water jets and abrasive jets for jet cutting, industrial cleaning, and other uses in the manufacturing, mining, construction, and process industries.

2. To foster foreign and domestic trade in jet cutting and cleaning products and services.

3. To promote in general the interests of the jet application industry in all branches, including establishment of codes of practice and safety standards.

4. To promote the mutual improvement of its members, and the study and advancement of the arts and sciences connected with the jet cutting of industrial and geological materials, as well as industrial cleaning.

In regard to the third objective, it should be noted that, at the 3rd U.S. Water Jet Conference, held on the Campus of the University of Pittsburgh, in May of 1985, the Association adopted the first code, namely "RECOMMENDED PRACTICES FOR THE USE OF MANUALLY OPERATED HIGH PRESSURE WATER JETTING EQUIPMENT."

1987 INVESTMENT

In early January, the 1987 dues invoices were mailed out. To insure your continued membership, please be certain that your investment has been paid.

An Open Letter to All Members.....

January 2, 1987

Dear Members:

In September, our Association, retained Carousel Management Services, a St. Paul based association management company, with a successful background in the industry. This commitment was made for several reasons - among them: 1) To better serve the Association's membership needs; 2) Centralize the office, inquiries and data on the Association; 3) To provide greater continuity and visibility for the Association; 4) To eliminate any duplication of efforts, while striving for increased membership, a broader range of services, etc.

Within this short period of time, many of our goals are on the way to being accomplished. We have already centralized the office, established a permanent mailing address and phone number, designed an official Association logo, developed a bi-monthly Newsletter format which allows for advertising space to assist in defraying production costs, updated and consolidated all of our mailing lists, mailed press releases to appropriate publications, revitalized our bookkeeping system, an up-to-date Roster is being compiled, among other activities.

These services, together with the increased activities planned for 1987 (including the Berkeley Conference & Short Course, the updating of Standards and information on the growth developing within the Industry) all require financial support - specifically, your continued commitment to our viable Association by renewing your membership in the U. S. WATER JET TECHNOLOGY ASSOCIATION.

Enclosed you will find your 1987 Investment. We trust you will promptly renew your membership, and again, be an active participant and voice in our growing Association. Your support is needed. We are certain that the bi-monthly Newsletter and the 1987 Membership Roster will be worth your investment.

We are dedicated to serving our members, and with your continued help, this can and will be accomplished.

Respectfully I remain,

yours sincerely,
Dr. David A. Summers

P.S. The 1987 Investment must be paid no later than February 15th, to assure inclusion in the Membership Roster.

Ed. Note: *Along with your 1987 Membership Investment our staff enclosed a cover letter under the signature of Dr. David Summers. The quality of the printed letter was extremely poor - and for this we apologize. For this reason, we reprint here the letter.*

We Need Your Assistance

The Post Office has returned 1 following mail for various reasons. Can you help us locate the following:

Mr. Stephen Elkins
P.O. Box 5418
Kent, WA 98031

Mr. Herbert Wright
Hydro-Power Engineering
P.O. Box 709
Brighton, MI 48116

Soil Testing Española
Madrid, Spain

Ultra Jet
P. O. Drawer 693
Mill Valley, Ca 94942

Great Lakes Water Blasting
P. O. Box 443
Wentzville, MO 63385

Liquid Lasers
2412 Tea Garden St.
San Leandro, CA 94577

Jet Stream of Houston
1729 Britton Road
Houston, TX 77043

The Dosco Corporation
1020 N. Eisenhower Dr.
Buckley, WV 25801

Industrial High Pressure Systems
85 Steelcase Road E.
Markham, Ontario, Canada L3R 1E9

Dynamic Construction
Bloomfield Hills, MI 48013

Jeffrey Mining
P. O. Box 1879
Columbus, OH 43216

The addresses we have listed are the last known address we have. Your help is appreciated

A Paid Advertisement

PROBLEM

To achieve fast and complete removal of epoxy-bound rubber propellant residue from Space Shuttle Motors (Thiokol) and Titan Rockets (United Technology).

SOLUTION

Use of SUPER WATER® concentrated industrial water blasting additive.

REFERENCE

Polymerblasting - A Chemist's Point of View, W. G. Howells. Proceedings of the Second U.S. Water Jet Conference, May 24-26, 1983. Reprints and referral to contractor involved available from:

Berkeley Chemical Research Inc.
P.O. Box 9264
Berkeley, California 94709
(415) 526-6272

Meeting Profile

by Don Nygaard, Manager
U.S. Water Jet Technology Association

Members of the Association met informally on March 16th and 17th in Cincinnati, Ohio.

Members in attendance interviewed representatives from the American Society of Testing & Materials (ASTM). The purpose was to review ASTM's procedures relative to certifying standards for Occupational Health and Safety in regard to high pressure water cleaning. (ASTM Sub Committee e-34.03.)

Following the interview process, the members gathered again to discuss whether or not to submit the "Recommended Practices...". By a majority of member present, it was determined to submit to ASTM for their certification process. Changes in the "Recommended Practices..." were discussed and approved and will be submitted to all members at the annual meeting for approval in Berkeley.

Also on the agenda was discussion to consider revising some of the existing WJTA Bylaws. These recommended changes will be mailed to all members in good standing and presented at the annual meeting.

Attendees included: Dr. David Summers, University of Missouri-Rolla; Mike Woodward, Weatherford; Ray Jordan, Ingersoll-Rand; Evetter Steele, C&E Steel Corporation; Tom Hoenigman, Vadakin; Forrest Shook, NLB Corporation; John Wolgamott, Stone Age; George Savanick, U.S. Bureau of Mines (Mpls.); Chuck Taylor, U.S. Bureau of Mines (Pittsburg); and Don Farley, Autoclave; and Don Nygaard, representing the Association office.

Roster Deadline Extended

Members decided to extend the deadline for publishing the 1987 WJTA Membership Roster to April 20, 1987 for distribution in mid-May. This extension decision will allow for the delay in mail service, primarily for our international members. Only members, who have paid their dues in full, by April 20th, will be listed. The roster will be available at no cost to members and will feature a "Buyers' Guide" section.

CUTTING TECHNOLOGY

New Manufacturer Enters Waterjet Cutting Industry

Jet-Edge Corp., Minneapolis, Minn. is joining the small group of domestic waterjet-cutting systems manufacturers. The company has operated a job shop using waterjet and abrasive waterjet equipment to cut a variety of materials since January 1984.

Jet-Edge's parent company Possis Corp., and Continental Machine, both of Minneapolis, entered into a joint venture that will allow Jet-Edge to produce its own line of waterjet and abrasive waterjet systems.

Continental Hydraulics, a division of Continental Machine, will manufacture intensifiers and other components, while Continental Machine will manufacture framework and assemblies. Possis Corp. will provide all engineering services for the systems.

The venture means Jet-Edge can provide a wide variety of systems due to Possis Corp.'s machine tool expertise coupled with Continental Hydraulics' experience in building high-pressure fluid components. Jet-Edge will draw upon its experience in waterjet cutting to take full advantage of each firm's capabilities.

For more information on Jet-Edge's line of waterjet and abrasive waterjet systems: Jet-Edge, 750 Pennsylvania Ave., S., Minneapolis, Minn. 55426; tel: 800/538-3343.



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Calendar Listing

AUGUST 27-28, 1987 -

Fourth U.S. Water Jet Conference, University of California, Berkeley. For information: Nanette Pike, University of California Extension, 2223 Fulton St., Berkeley, CA 94720; (415) 642-4151.

The road to success is always under construction

IS SOMEONE YOU KNOW not on our mailing list? If you know of an interested person, who should be on our JET NEWS mailing list, please send his/her name to:

JET NEWS
U.S. Water Jet Technology Ass'n
P.O. Box 19057
St. Paul, MN 55119

This Space for Sale

You can advertise in JET NEWS at these low rates:

Full Page	\$150
1/2 Page	\$ 90
1/4 Page	\$ 60
Business Card	\$ 25
B/W Photos (each)	\$ 5

Ad Deadline Issue Date

May 10	Jun 1
Jul 10	Aug 1
Sep 10	Oct 1
Nov 10	Dec 1

Send your advertisement to:
U.S. WATER JET TECHNOLOGY ASSOCIATION, P.O. Box 19057, St. Paul, MN 55119 with your payment.

Can We Talk! ...

We have received many favorable comments from across the country about JET NEWS and we hope that you are among the readers enjoying our publication.

It is our commitment to bring you the most up-to-date industry news -- but to do so we need your help!

Please send us press releases about you, your company or research, your new products, etc. and we will make every effort to make your news, JET NEWS.

The thing you can learn from watching a clock is, the clock passes time by keeping its hands busy.



Don Nygaard

Don Nygaard Named Manager

Don Nygaard, of Carousel Management Services, has been named Manager of the WJTA account and will be responsible for the day-to-day management services. Since the completion of Laurie Simpson's internship with Carousel on February 1st, Mr. Nygaard accepted to fill the vacancy. In addition to this responsibility, he is actively involved in the development and implementation of cost reduction programs for major companies throughout Minnesota for safety, absenteeism, employee morale, etc. Gretchen Dian will remain involved in the promotional aspects of the association.

Postmaster: Please send Form 3579 to:
U. S. WATER JET TECHNOLOGY ASS'N
P.O. Box 19057
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