

*THE U. S. WATERJET
TECHNOLOGY ASSOCIATION*

NEWSLETTER

FALL ISSUE

265 HARMON AVE., LEBANON, OHIO 45036

VOL. 1

THE OBJECTIVES OF THE WATER JET TECHNOLOGY ASSOCIATION

- A. To provide a means of cooperation between government, industry, university and research institutions on all matters of national concern related to application 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.
- B. To foster foreign and domestic trade in jet cutting and cleaning products and services.
- C. To promote in general, the interests of the jet application industry in all branches, including establishment of codes of practice and safety standards.
- D. 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.

THE THIRD U.S. WATER JET CONFERENCE

The Water Jet Technology Association held their 3rd. conference this past May at the University of Pittsburg, Pittsburg Pennsylvania. The first day was a Water Jet short course, sponsored by the University of Pittsburg Bureau of Mines, and the Water Jet Technology Association. The Water Jet conference covered the next 2½ days.

The conference included subjects on Industrial and cleaning applications, Theoretical studies and Abrasive Jets, Mining, Drilling and special applications. There were twenty nine papers presented by speakers from the U.S.A., United Kingdom, England, Germany, Canada and China.

Attendance to this years short course and conference was made up by people from the U.S.A., Canada, China, England, British Columbia, Nova Scotia, Germany, Japan and Australia.

"PIONEER AWARD"

Each year the US Water Jet Technology Association has awarded a "Pioneer Award". This award is presented to an individual who has made outstanding contributions to the field of Water Jet Technology. The 1985 Pioneer Award was presented to Mr William Cooley of Terraspace Inc., Rockville Maryland.



Dr David Summers, President of the Water Jet Technology Association, (on the left) presenting the "PIONEER AWARD" to Mr William Cooley for his outstanding contribution to Water Jet Technology.

In this, our Fall edition of the Water Jet Technology Association Newsletter, we would like to introduce to you the officers of this organization.

CHAIRMAN OF THE BOARD



Dr. Fun-Den Wang

Dr. Fun-Den Wang is a Professor of Mining Engineering at the Colorado School of Mines, Golden, Colorado. He is a founder and currently Chairman of the Board of the Water Jet Technology Association. During the past ten years, Dr. Wang has served on various committees of the U.S. Departments of the Interior and Energy, and as a consultant to the mineral industries. He was active in mining research in the fields of tunneling, rock mechanics, water jet technology and mine design.

In 1980, he was named an honorary professor at both Central-South Institute of Mining & Metallurgy, Changsha, Hunan Province (Central-South is in the Ministry of Metallurgical Industry), and the China Institute of Mining and Technology, Xuzhou, Jiangse Province (CIMT is in the Ministry of Coal Industry), China.

Dr. Wang is on sabbatical leave from the Colorado School of Mines for the 1985-1986 academic year. During leave, he will lecture on water jet technology and rock mechanics as applied to mining in various countries.

PRESIDENT



Dr David A. Summers

Dr David A. Summers, who was elected President of the Water Jet Technology Association in 1985, was born in Newcastle-on Tyne, England in 1944. He is a ninth generation coal miner, and worked for the National Coal Board in England before going to the University of Leeds, where he obtained both Bachelors and Doctoral Degrees in Mining Engineering. His PhD thesis was on water jet cutting of rock, and he has continued this interest since.

Appointed an Assistant Professor of Mining Engineering at the University of Missouri-Rolla in 1968, he has successively been promoted until he reached his current position as Curators' Professor in 1980. He was appointed Director of the High Pressure Waterjet Laboratory at UMR in 1984. He is an honorary member of the British Hydromechanics Research Association and an educational member of the Cleaning Equipment Manufacturers Association.

VICE PRESIDENT

James L. Evers is an associate professor in the Department of Civil Engineering and Mechanics at Southern Illinois University at Carbondale. He received his BSME and PhD from the University of Alabama and a diploma from the Von Karman Institute in Rhode Sainte Genese, Belgium. His research in water jet cutting began in 1980 when he was on sabbatical with the Department of Energy, working with their hydraulic mining program.

He is a charter member of the Water Jet Technology Association and has served as the treasurer for the past two years. He is currently serving as the Vice President of the Association.



James L. Evers

SECRETARY



Evette C. Steele

Evette C. Steele received her education in Cincinnati and Hamilton, Ohio. Since 1965 she has been involved in research & development with her husband, Curtis Steele. For 14 years they were in the aircraft field and for approximately the past 6 years they have been in the Ultra High Pressure Water Jet Technology field. Thru extensive research they developed the hand held Water Laser® Tool's using the ultra high pressure for industrial use.

Evette is the Vice President of Supreme Technologies, inc. and High Tech Laser Service, inc. Curtis & Evette are both charter members of the Water Jet Technology Assn.

TREASURER



Neil A. Styler

Neil Styler received his PhD in Rock Mechanics from the University of Newcastle-Upon-Tyne, England in 1980. Upon completion of his degree, he took the position of Assistant Professor in Mining Engineering at the University of Pittsburgh. Neil has also been a consultant to the Department of Energy and then the Bureau of Mines at the Pittsburgh Research Center.

For the last few years he has been involved with the water jet assisted cutting research at the Bureau of Mines, with particular interest in the mechanism rock fragmentation. Neil was the chairman of the Third U.S. Water Jet Conference held in May at the University of Pittsburgh, and sponsored by the University, the U.S. Bureau of Mines, and this Association.

1987 WATER JET CONFERENCE

The 1987 U.S. Water Jet Technology Association Conference will be held at one of three places:

1. Hueston Texas
2. Berkeley California
3. Rolla Missouri

When the conference location is confirmed we will publish it in the newsletter.

ACCOMPLISHMENT

The accomplishment that has been made thus far by the Water Jet Technology Assn. which we are the proudest of, is the publishing of the code of "Recommended Practices for the use of Manually Operated High Pressure Water Jetting Equipment". This manual will be a very helpful asset to industry, contractors and to those who are interested in the water jetting field. Safety and knowledge in Water Jet Technology has been needed, and this Association has acknowledged this need, therefore thru the expertise

of Dr David Summers, and other members of the Association who are in the fields of research and development, they are technicians and they are in industry, this manual has emerged. Costs for the booklet are:

\$5.00 each (1 to 10 copies)
\$4.00 each (10 to 99 copies)
\$3.00 each (for more than 100)

Please place your order through the secretary of The Water Jet Technology Association,

Evette Steele
Supreme Technologies Inc.
265 Harmon Avenue
Lebanon, ohio 45036

or thru the President of the Association,

David A. Summers
High Pressure Waterjet Laboratory
University of Missouri-Rolla
Rolla, Mo. 65401

Please make checks payable to the U.S. Waterjet Technology Association.

NEWS ARTICLES

The WJTA would like to make this newsletter an avenue of information for those of us who are interested in, or who are associated with Waterjet Technology. We are here to help where we can. So, this is a request to you for the following:

1. QUESTIONS.....Questions on Waterjet Technology. All questions will be answered by professionals in this field.
2. COMMENTS OR CRITICISM.....
3. ARTICLES.....Information we can publish.
4. NEW IDEALS.....New Applications, etc..
5. PICTURES.....Using the Waterjet in your profession.
6. ANNOUNCEMENTS.....Of conferences, meetings or shows about Waterjetting.
7. ADVERTISEMENTS.....More on this issue later.

This newsletter is for the interest, advancement and involvement of all interested parties in Waterjet Technology. This technology is growing and improving daily. The uses for Waterjetting are vast. If you or your corporation would like to be a part of this new frontier, or if you have a need for this technology, why not become a member of the U.S. Water Jet Technology Association. Fill out the application for membership in this newsletter.

LOGO CONTEST

The WJTA is looking for a Logo. It can be technical, logical, humorous or just plain clever. Now is your chance to demonstrate your creative abilities. This logo will be used by the WJTA on documents, newsletters, public relations material, etc.. A cash prize of \$50.00 will be awarded for the winning entry. Please send your entries to the secretary, Evette Steele % Supreme Technologies Inc. 265 Harmon Ave. Lebanon, Ohio 45036

RESEARCH POSITION AVAILABLE

Research positions are available in a laboratory dedicated to the study of Water Jet cutting of Rock. These positions relate to the study of the fundamentals of abrasive Water Jet cutting of hard rock and to the study of long stand off distance Water Jet cutting of Rock. Interested parties should contact:

Dr George Savanick
Twin Cities Research Center
5629 Minnehaha Avenue south
Minneapolis, Minnesota 55417

You may call Dr Savanick any time between 8:00am and 5:00pm Monday thru Friday.

WINTER EDITION

If you have anything that would be of interest in water jetting that you would like to have published in our next newsletter, please send it to me by November 30, 1985.

In the next issue, we will publish one or two of the papers from the WJTA conference's held last May in Pittsburgh.