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# product news

Dieter Birkenhofer, of D&G Industries, Inc. (Holbrook, NY), announced that they have upgraded their SPIR STAR super high pressure hoses.

"Our NW 5/4 hose has now a working pressure of 26,000 psi and a minimum "arst pressure of 65,250 psi. Also, the

W 8/6 has a 36,000 psi working pressure and a 72,000 psm minimum burst pressure. The NW 5/6 has a 45,000 psi working burst pressure and 90,000 psi minimum burst pressure."

For more information, contact Dieter at 516/585-8912.

#### Japan To Be Site of 9th International Symposium on Jet Cutting Technology

BHRA, The Fluid Engineering Centre, will hold its 9th International Symposium on Jet Cutting Technology in Sendai, Japan, from 4-6 October 1988.

Water jetting techniques are already widely used to solve many cleaning and descaling problems, while water jets entraining an abrasive enable difficult materials to be cut in hazardous environments. The jetting industry is now concerned with methods of improving the profitability and efficiency of its systems in order to

-See Japan, page 2

### George Savanick Elected WJTA President

Dr. George Savanick, U.S. Bureau of Mines, Twin Cities Research Center, Minneapolis, MN, was elected President of your U.S. Water Jet Technology Association at the Berkeley meeting.

Other officers and board members: Dr. David Summers, Chairman of the Board; Dr. Michael Hood, Vice President; Dr. James Evers, Treasurer; John Wolgamott, Secretary. Directors: Pat DeBusk, Tom Labus, James Reichman, Forrest Shook, Evette Steele, Dr. Fun-Den Wang, and Mike Woodward.



Norman C. Franz receiving "The Pioneer Award" from Dr. David Summers.

Norman C. Franz received the coveted Pioneer Award for his leading contribution to research, inventions, and development of the industry of higher pressure water jet cutting. His notable contribution to the use of fluid additives to improve the quality of the cutting jet, and to improve their range of application was particularly recognized.

INSIDE: A PHOTO SYNOPSIS OF A GALA EVENT

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The aim of writing is not simply to be understood, but to make it impossible to be misunderstood.

Cicero

# Japan, continued from page 1

extend the variety of applications for this valuable cold-cutting technique. Recent innovations have enabled low-pressure pump sets to be employed, therby improving power consumption rates and reducing cutting costs. Although the accent in Japan has been mainly in jet-assisted tunnelling and mining, there is considerable interest in applying jet cutting to manufacturing systems. This meeting will allow researchers, manufacturers of systems, contractors, and end users to discuss current practice as well as requirements for the year 2000 and beyond.

Subjects to be covered are listed below:

Fluid mechanics of jets, Abrasive jet cutting and cleaning systems, Cavitation, Modulated and pulsed jet systems, Jet/target interaction studies, Safety and environmental considerations, Equipment design, testing and operation, Industrial applications(cutting and cleaning, mining and tunnelling, civil engineering — construction, repair & demolition, nuclear, offshore, medical, special applications, High pressure water jet cleaning/cutting technology required for the 21st century.

The committee will consider papers outside these specific topics which fall broadly into the Conference area.

Our office has 60 extra copies of a brochure detailing this symposium, please write or call us.

## Conference Proceedings Review

The U.S. Water Jet Conference, held every two years, provides a forum for research workers and practitioners to exchanginformation and ideas on a variety of topics in this developing area of technology.

At previous meetings, practitioners have been largely representatives from the rock and concrete cutting, mining, and cleaning industries. While these industries are amply represented, this year, for the first time, emphasis was also placed on the use of water jets in factories, reflecting the expanding applications for this technology to manufacturing industries.

The following is a listing of the papers presented. If you would like a complete copy of the "Proceedings of The Fourth U.S. Water Jet Conference" contact: The American Society of Mechanical Engineers (ASME), United Engineering Center, 345 E 47th St., New York, NY 10017.

Field Application-Manufacturing - Milling With Abrasive-Waterjets: A Preliminary Investigation, M. Hashish; The Use of High Pressure Waterjets in Cutting Foam, S. Yazici and D.A. Summers.

Research - Percussive Jets — State-of-the-Art, E.B. Nebeker; Theoretical Analysis and Experimental Study of the Self-Excited Oscillation Pulsed Jet Device, Liso Zheng Pang and Tang Chuan Lin; Dynamic Characteristic of Waterjets Generated From Oscillating Systems, W.Z. "Ben" Wu, D.A. Summers, and M.J. Tzeng; Flow Visualization of High-Speed Water Jets, M. Szymczak, S. Tavoularis, A. Fahim, and M.M. Vijay; Considerations in the Design of a Waterjet Device for Reclamation of Missile Casings, D.A. Summers, L.J. Tyler, J. Blaine, R.D. Fossey, J. Short, and L. Craig

Field Applications-Construction - Development of Cavitating Jet Equipment for Pavement Cutting, A.F. Conn, M.T. Gracey, W. Rosenburg, and S.T. Gauthier; Hydro Demolition-Technology & Productivity and Profits for America, R.J. Nittinger; Abrasive-Waterjet and Waterjet Techniques for Decontaminating and Decommissioning Nuclear Facilities, D.C. Echert, M. Hashish, and M. Marvin

Research and Development Mining - Jet Kerfing Parameters for Confined Rock, J.J. Kolle; Conical Water Jet Drilling, W. Dickinson, R.D. Wilkes, and R.W. Dickinson; The Effect of Pre-Weakening a Rock Surface, by Waterjet Kerfing, on Cutting Tool Forces, J.E. Geier and M. Hood

Research - Study of Particle Velocities in Water Driven Abrasive Jet Cutting, R.K. Swanson, M. Kilman, S. Crewin, and W. Tarver, Hydroabrasive Cutting Head - Energy Transfer Efficiency, G. Galecki and M. Mazurkiewicz

Field Applications-Mining - Water Jet Assisted Longwall Shearer: Development and Underground Test, E.D. Thimons, K.F. Hauer, and K. Neinhaus; Considerations in the Use of High Speed Water Jets for Deep Slotting of Granite, M.M. Vijay, J. Remisz, B. Hawrylewicz, and R.J. Puchala; An Abrasive Water Jet Rock Drill, G.A. Savanick and W.G. Krawza

Fleid Applications-Cleaning - A Relative Cleanability Factor, A.F. Conn., M.T. Gracey and W. Rosenberg; The Development of a High Production Abrasive Water Jet Nozzle System, M.J. Woodward and R.S. Judson; Cleaning the Tube Side of Heat Exchangers, R. Paseman and L. Griffith; Rotary Waterblast and Lancing Machines, G. Zink and J. Wolgamott

Research and Development - Manufacturing - Material Dynamic Response During Hydroabrasive Jet Machining (HAJM), M. Mazur-kiewicz and P. Karlic; Surface Finish Characterization in Machining Advanced Ceramics by Abrasive Waterjet, C.D. Burnham, and T.J. Kim; Abrasive Waterjet Cutting of Metal Matrix Composites, K.F. Neusen, P.k. Rohatgi, C. Vaidyanathan, and D. Alberts.

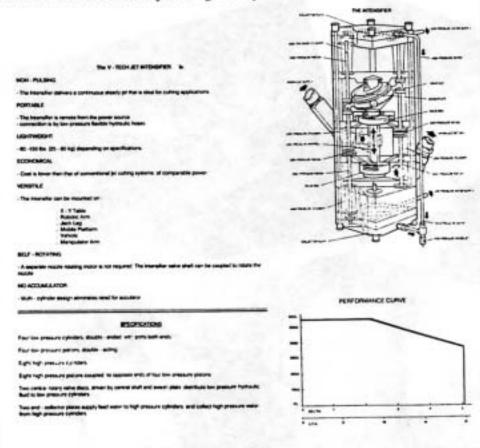
In addition, many of the topics presented in the short course web, by WJTA members including: Jim Reichman, Michael Hood, John Wolgamott, Mike Woodward, Tom Labus, and David Summers.



Your Hosts: University of California - Berkeley • Stone Age • Weatherford

### V-Tech Industries Introduces New Breakthrough in Water Jet Technology

The "V-Tech Rotary Intensifier", manufactured by V-Tech Industries, Canada, has just been introduced to the water jet cutting industry.



For further information, contact: V-TECH, 5484 Tomken Road, Unit #14, Mississauga, Ontario, Canada LAW 2Z6, or call 416-625-5362.

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

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#### Notes From Members ...

"... As one of the founding members, I am delighted with the progress of the association has made and the JET NEWS in particular.

Keep up the good work!"

Sincerely,

Casper W. Zublin Zublin & Company, Inc. 3434 Truxton Avenue #270

# D & G Industries, Inc.

21 Charles Avenue Holbrook, New York 11741

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Super high pressure hoses for high pressure cleaning and water jet cutting

Working pressure up to 45,000 psi.