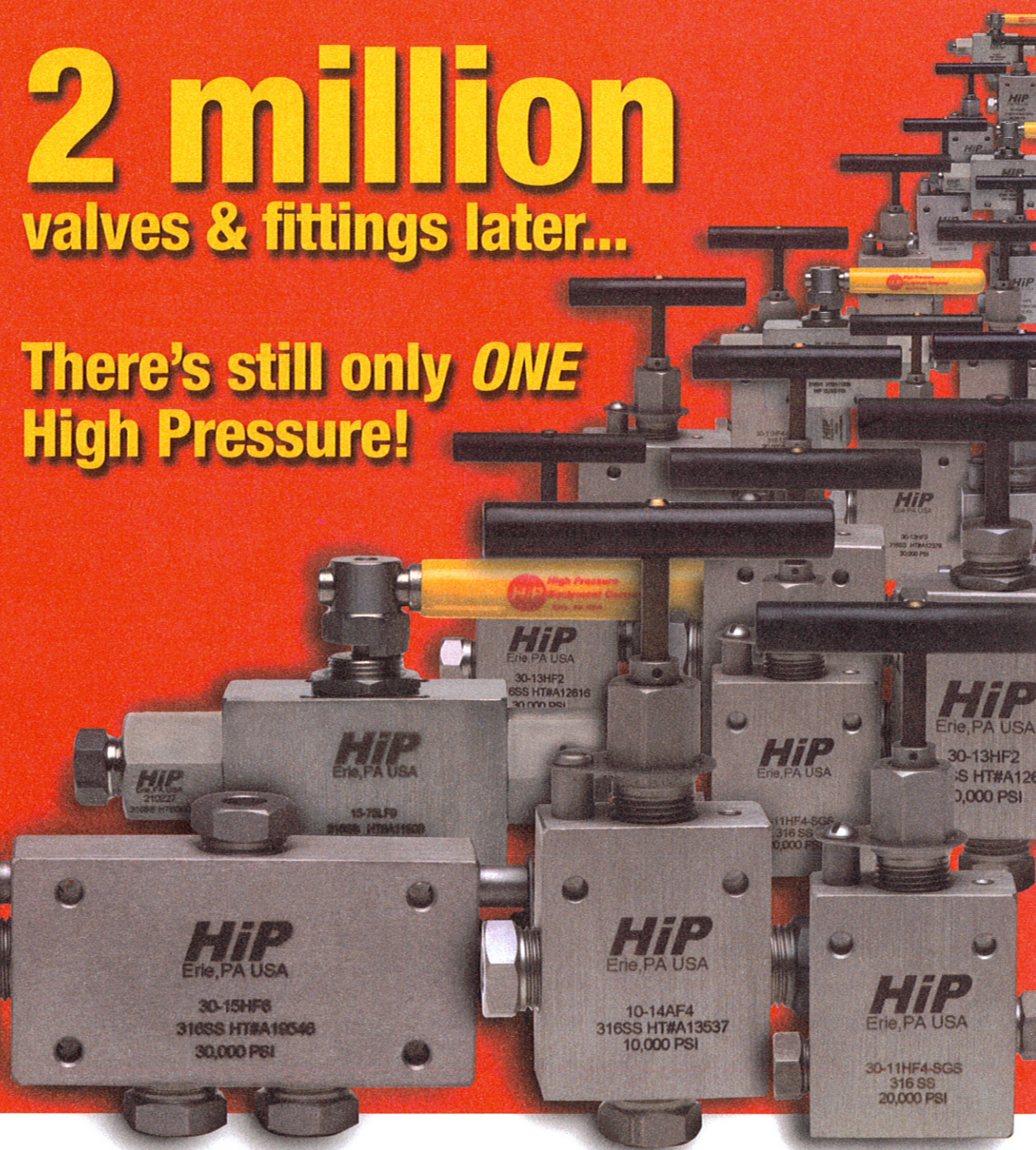


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**Jet News**

DECEMBER 2003

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## 7th Pacific Rim Conference on Water Jetting Technology October 27-29, 2003, Jeju Island, Korea



On Jeju Island waterjets are also used for beautification and fun. Dancing fountains are there where teenagers try to run between the streams without getting wet. These dancing fountains are especially beautiful during night hours when light illuminates the fountains dancing to synchronized music. Photo courtesy of Grzegorz Galecki, Ph.D., University of Missouri-Rolla.

See page 2 for more highlights of the 7<sup>th</sup> Pacific Rim Conference.

### On the inside

7th Pacific Rim  
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Reichenbach ..... pg.5

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Solicits  
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## 7th Pacific Rim Conference on Water Jetting Technology, from page 1

The 7th Pacific Rim International Conference on Water Jetting Technology organized by the Korean Society of Water Jet Technology (KSWJT) and co-organized by the Korean Society for Geosystem Engineering (KSGE), the Water Jet Technology Society of Japan (WJTSJ) and Korean Fluid Machinery Association (KFMA), was held in Jeju, Korea, October 27 to 29, 2003.

Grzegorz Galecki, Ph.D., attended the conference, and he reports that there were sixty-four abstracts, fifty-one papers plus four posters, and over one hundred participants representing nine countries.

The next Pacific Rim Conference will be in China in 2006.

### Keynote Lectures

- Waterjet technology use and development in the automotive industry

*Dr. Mohamed Hashish*  
Flow International Corp., USA

- Development of erosion models for abrasive waterjet machining

*Prof. Thomas J. Kim*  
University of Rhode Island, USA

- High-velocity water jets - in air and under submerged environments

*Prof. Seiji Shimizu*  
Hiroshima Institute of Technology, Japan

- Current state and future prospects of the water jet technology in the construction industries

*Dr. Teruo Yahiro*  
Toyo Consultant Corp., Japan

- Application of water jet technology to industry in Korea - Current situation and perspective

*Prof. Chung-In Lee*  
Seoul National University, Korea

### Papers Presented

#### Fundamentals

Velocity measurement of abrasive water injection jet by PIV

*Seiji Shimizu, Shinji Kumagai*

The experiment equipment design and study on submerged abrasive waterjet

*Yuan-lin NING, Shou-Gen Hu, Ji-Fei Gao, Xu-Ping Jiang*

Roughness measurement of disc kerf walls created by abrasive water jet in rock and concrete blocks

*Jea-Joon Song, Jung-Gyu Kim, Ki-Yoon Bae, Chul Hong Kwak*

(continued on page 10)



**Opening remarks by Prof. Chung-In Lee, Seoul National University.** Photo courtesy of Grzegorz Galecki, Ph.D., University of Missouri-Rolla.



**During the conference, there was a demonstration of high pressure cleaning equipment.** Photo courtesy of Grzegorz Galecki, Ph.D., University of Missouri-Rolla.



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## 7th Pacific Rim Conference on Water Jetting Technology, from page 12

### Cavitation Jets

Peen forming by using a cavitating jet in air  
*Hitoshi Soyama, Kenichi Saito*

Effect of salt water on cavitation impact load in submerged jet

*Motohiro Yokota, Hitoshi Soyama, Hiromi Mochizuki, Masahiro Gotou*

Water jet in-process dressing

*Hironori Katayama, Masaki Izawa, Nobuaki Iguchi, Naoki Asakawa, Masatoshi Hirao*

Removal of plasma sprayed ceramic coatings by plain water jets

*Liang Ding, Seiji Shimizu, Mitsuo Kido*

### Poster Presentations

Study on control of abrasive flow rate in abrasive water suspension jet

*Chuwen Guo, Xiong Duan, Hiroshi Katakura, Ryuichiro Yamane*

Concrete and rock cutting using modulated waterjets

*Libor Sitek, Josef Foldyna, Jiri Scucka, Lenka Bodnarova, Rudolf Hela*

Measurement of dynamic pressure and force effects of modulated water jet

*Josef Foldyna, Libor Sitek, Pavel Jekl, Branislav Svehla*

Technique and technological capabilities of water-jet cutting equipment available at RFNC-VNIITF

*Evgeny T. Antoshin*

### Safety Committee Solicits Comments On Improvements To Recommended Practices

The WJTA Safety Committee solicits comments regarding improvements to the publication, *Recommended Practices for the Use of Manually Operated High Pressure Waterjetting Equipment*. While the Recommended Practices is reviewed periodically at the biennial conferences of the WaterJet Technology Association, your comments and suggestions for improving the publication are invited and welcome anytime.

Please address your comments and suggestions to: Safety Committee, c/o WJTA, 917 Locust Street, Suite 1100, St. Louis, MO 63101-1419, fax: (314)241-1449, e-mail: [wjta@wjta.org](mailto:wjta@wjta.org), web site: [www.wjta.org](http://www.wjta.org).

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## Production

Quantitative and comparative study of abrasive contamination in ductile and brittle material for abrasive aqua jet machining (AAJM)

*Keyukumar J. Patel*

Development and application of fluid jets accompanied by thermal phenomena (A Review)

*Hiroshi Kiyohashi, Kiyohiko Okumura, Mamoru Abe*

Some aspects of hydroabrasive suspensive jet cutting of aluminum alloy

*Andrzej Perec*

Improvement in performance of gear form grinding with jet flow technology

*Satoru Ezoe, Koso Nagao*

## Surface Treatment

Novel technology of water pipeline cleaning using high pressure water jet

*Przemyslaw Borkowski*

Fundamentals of surface treatment with high-pressure abrasive-water jet

*Przemyslaw Borkowski*

Polymer removal in pipe inside by ultra high pressure waterjet cleaning

*Makoto Kuroda, Wonho Kang*

Abrasive waterjet machined surface characteristics of titanium alloy (Ti6Al4V)

*Y. W. Seo, D. W. Kim, M. Ramulu*

## Civil/Mining

Efficiency of concrete removing with water jet technology

*Masao Minabe*

Concrete substrate preparation with waterjets for repair and strengthening of concrete

*G. Galecki, N. Maerz, A. Nanni, J. Myers*

Bond characteristics of interfaces between construction materials and concrete surface treated by water jet method

*Shigemi Sakoda, Hidetaka Suzuki, Ichiro Adachi, Hideyuki Utsumi, Li Ying*

Influence of the mix proportion of the aggregate for concrete by water jet technology in surface treatment

*Masafumi Akiyama, Li Ying, Tomoki Sakurai, Sigemi Sakoda, Ichiro Adachi*

High-quality aggregate reproduction method using water jet

*Takahisa Isobe*

Drilling of rocks using an abrasive suspension water jet

*Ho Young Seo, Song S. Han, Chung-In Lee*

Disc cutting in granite and concrete with abrasive suspension jet

*Song S. Han, Chul Hong Kwak Chung-In Lee*

A waterjet system utilizing cuttings as abrasives for cutting hard rocks with moderate pressure

*Koji Matsuki, Akihisa Kizaki, Ryuta Togasawa*

Abrasive water jet perforation - An alternative approach to enhance oil production

*Gensheng Li, Jilei Niu, Jian Song, Zhongwei Huang*



**Closing remarks by Prof. Chung-In Lee, Seoul National University.** Photo courtesy of Grzegorz Galecki, Ph.D., University of Missouri-Rolla.

A study on the effectiveness of an abrasive suspension water jet applied to a microtunneling machine

*Jung-Guen Kim, Tae-Dong Park*

The experimental study on oil & gas well casing cutting with abrasive waterjet

*Weidong Zhou, Ruihe Wang, Yongyin Yang, Yuhuan Bu*

Behavior of high-speed pulsed water jet in the air and its drilling effect on metal

*Katsuhiro Yamamoto, Norihisa Handa, Kazuyoshi Harada, Makoto Iwase*

Study on rock breaking mechanism during swirling water jet drilling

*Ruihe Wang, Hongjian Ni, Weidong Zhou*

Numerical simulation of the flowing field of high pressure jet impinging the bottom-hole

*Gensheng*

Bifurcation of steady state solution of cavitating flow through converging-diverging nozzle

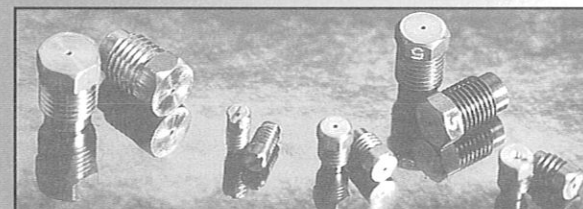
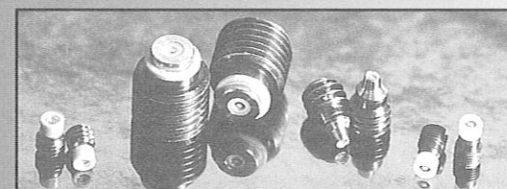
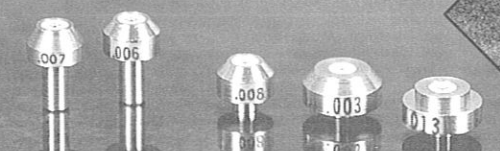
*Feng-hua Zhang, Xiao-qí Zhang, Chuan-lin Tang*

(continued on page 13)

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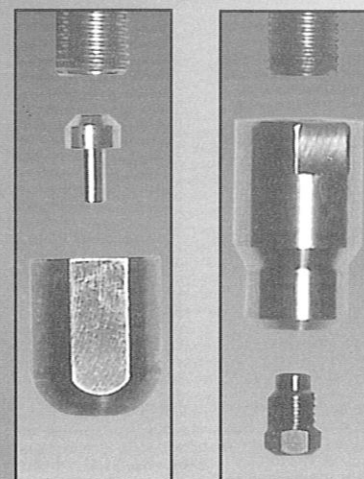
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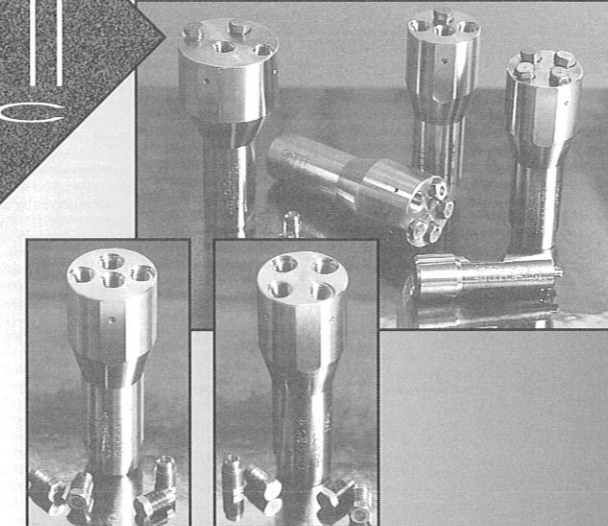
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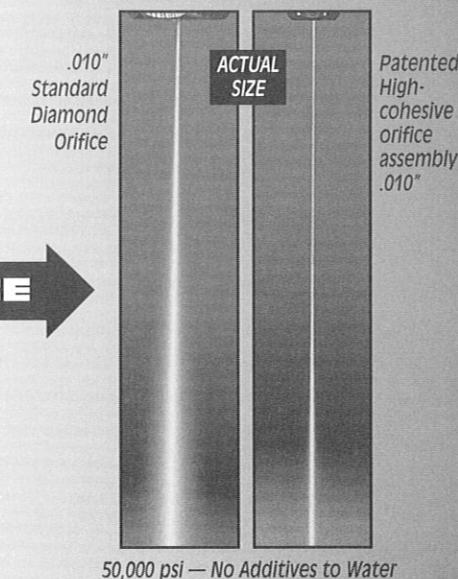
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## Summary of Papers at the SSPC 2003 Conference Dealing With Surface Preparation Methods, Waterjetting, Wet Abrasive Blasting, And Environmental Issues

Prepared by *Lydia Frenzel, Ph.D.*

The full papers can be purchased on CD-ROM from [www.sspc.org](http://www.sspc.org).

### Coating Types

1. Is There an Alternative to Abrasive Blasting?

*Peter K. Fisher*  
Rust-Oleum Corporation  
Vernon Hills, IL

Compared Acrylic elastomeric to Zinc/epoxy/polyurethane and to other coating systems. Lots of comparison data. Both the acrylic elastomeric coating and the surface preps involving water provided cost savings.

### Surface Preparation

2. Business Elements Of Getting Into UHP Waterjetting

*Rick Schmid*  
Market Manager Surface Preparation Systems  
Flow International Corporation  
Kent, Washington USA

Several sections to the talk. Most people have more than one pump. Robotic rate is typically 300 sq ft/hour on hard marine paint, 600 sq ft/hour on industrial tank paint including time to inspect, etc. Production rate is 30-80-100 sq ft/hour on open hand lance; Robotics is 240-1000 sq ft/hour.



Capital Investment Required - The most typical system purchased to start in the business is one 200 hp pump, two hand held lances, 300 ft of UHP hose and a group consumable parts to operate the equipment for 3 - 4 months. The cost of a system like this is \$135,000 to

\$150,000. If robotics is added to this system there is an additional \$250,000 cost. These prices should be considered as only approximations.



Daily checks include oil and lubricants. Figure on 200 hours lifetime for seals and check

valves. Check lance daily for leaks. Nozzle inserts- 8-40 hours- check each shift; Swivel seals 10-20 hours. Training charts are available from manufacturers to put in production rates, complexity, labor costs, etc. for bid estimation.

(continued on page 7)

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#### Andre Lachevitiere

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Halifax, NS B3K 5M4  
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Fax: (902)494-5224

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East Tullos Ind. Est.  
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United Kingdom  
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### Individual

#### Brian Bollert

Waterjet Guy Inc.  
103 High Burn Drive  
Stoney Creek, ON L8J 3P2  
Canada  
Telephone: (905)561-9455

#### Dhiraj Shetty

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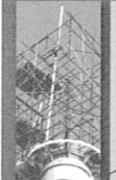
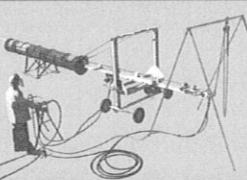

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## 7th Pacific Rim Conference on Water Jetting Technology, from page 2

Abrasive waterjet machining: A cost effective process for polymer composites

*Y.W. Seo, M. Ramulu,  
P. Posinasetti, M. Hashish*

Changing jet structure to increase vacuum pressure of jetting vacuum pump

*Chuan-lin Tang, Xiao-qi Zhang,  
Feng-hua Zhang, Lin Yang,  
Zhen-fang Liao*

The experimental study on the effective injection angle of the water jet cutting

*Hong Jun Wu, Satoshi Manabe  
Yoshiharu Kiritani, Keniti Nakaguro*

The natural frequency characteristics of the self-excited oscillating pulsed waterjet nozzle

*Lin Yang, Chuanlin Tang, Fenghua Zhang*

### Special Applications

Study on drying sludges by thermal jet dryer

*Naohito Hayashi, Sohei Shimada  
Hideyuki Umehara*

The ability of abrasive waterjets to penetrate through building rubble for firefighting and survivor detection

*Samir Dorle, David A. Summers,  
Anuj Gupta, Grzegorz Galecki*

Waterjet cutting - an advanced method for cutting sandwiches

*Franz H. Trieb*

The use of simplified tools for helping deal with the presence of landmines

*David A. Summers, Grzegorz Galecki,  
Robert Fossey, R. Joe Stanley, Samir  
Dorle, Sanjeev Agarwal, Robert Mitchell,  
Daryl Beetner*

(continued on page 12)

## Flow International Appoints Stephen D. Reichenbach VP & CFO

Flow International Corporation (Nasdaq: **FLOW**) has announced the appointment of Stephen D. Reichenbach as Vice President and Chief Financial Officer. Reichenbach will oversee all of FLOW's financial functions from the company's headquarters in Kent, Washington, and report directly to Stephen R. Light, FLOW's President and Chief Executive Officer.

Reichenbach previously served as Flow International's CFO from 1996-2001, when he was appointed CFO of the company's wholly owned Avure Technologies subsidiary. He has served in the additional capacity of interim CFO of Flow International since November 2002.


"Steve brings a thorough knowledge of FLOW's diverse operations, personnel, markets and challenges to the role of CFO," said Stephen R. Light, Flow's President and Chief Executive Officer. "I believe that Steve's positive relationships with our lenders and investors will yield prompt benefits as we undertake the numerous restructuring initiatives and improvement projects already

underway, and as we begin to resume profitable growth during the next two years and well into our future."

Reichenbach joined Flow International in September 1992 when the company acquired Spider Staging Corporation. He was appointed

Treasurer in March 1993, Vice President of Finance in 1996, and Executive Vice President in March 1997. Before joining FLOW, Reichenbach served as Controller at Spider Staging Corporation, and was an accountant with Ernst & Whinney.

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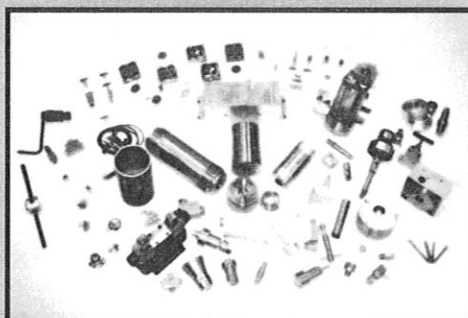


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## Summary of Papers at the SSPC 2003 Conference Dealing With Surface Preparation Methods, Waterjetting, Wet Abrasive Blasting, And Environmental Issues, from page 8

Fairly General Paper. Uses ICRI profile criteria. Includes a table comparing 16 different processes.

8. Selecting A Surface Preparation Method For Optimum Adhesion And Performance On Concrete Floor Surfaces

*Jeremy Kissinger*  
*Allen E. Slater*  
Product Specialists  
Blastrac  
An International Surface Preparation Company, North America

Compares shotblasting, diamond grinding, and scarifier with adhesion and costs to complete surface prep. Scarifier

pull showed that concrete had been damaged. Shot blaster is 250-10,000 sq ft/hour- for cost of \$0.005 - \$.05 per square foot. Diamond Grind was 100-1000 sq ft/hour for coast of \$0.06-\$0.08 per sq foot. Scarification was 100-400 sq ft per hour for a cost of \$0.06 to \$0.10 per square foot.

9. Removal of Coating from Concrete Floors Using UHP Water Jets

*J. Van Dam*  
Marketing Communications Manager  
NLB Corporation  
Wixom, Michigan

Good synopsis of advance in technology so that waterjet can be used. No economics. Showed heavy, medium, and light profiles.

10. Workshop on Salts

*Jerry Colahan*  
Chlor\*Rid

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