



WipWare Newsletter

145 Palangio Road, Bonfield Ontario, Canada, P0H 1E0, Tel. 705-776-1882 Fax. 705-776-1580

January 1999 Edition

Happy New Year and Welcome to WIN.. WipWare's Information Newsletter

Effective communication between WipWare and its worldwide customers is a company priority. Many of the innovations we have introduced are the direct result of customer feedback.

WIN (WipWare Information Newsletter) is designed for WipWare customers and targets your changing information needs.

You can also visit our website for convenient information on our company and its services, including the names and contact points for distributors in each region.

Points of Interest:

Website:
<http://www.wipware.com>
E-Mail:
info@wipware.com
Phone:
1-705-776-1882
Fax:
1-705-776-1580

The "WipWare Newsletter" provides distributors and customers with the following services and information:

- ✓ Highlights of new developments, systems, products and accessories
- ✓ A forum for questions and answers.
- ✓ Schedules of upcoming events
- ✓ An opportunity for customer input and suggestions.

Newsletters are published quarterly and are free of charge to WipWare customers. Delivery is available by fax, e-mail or mail. Please complete the form provided and fax it to us at 1-705-776-1580 denoting your preference.

Customer Input Wanted

WipWare is dedicated to improving the technology of photoanalysis and will continue to develop solutions to industry measurement problems. We encourage your input in this process!

Do you have a suggestion for future upgrades? Are you having difficulty getting the results you want with the existing version? You can ask us and our readers how they have handled this problem through the newsletter.

WipWare will prioritize all your suggestions and questions for volume and acuity when planning future software developments.

We also want to hear about your innovative applications of WipFrag and WipJoint that we can share with other customers.

This versatile software was originally designed for the mining industry, but we are also seeing exciting new applications in other industries. More on this in future editions.

How do you tell
how many people
are in a crowd?

With an aerial
photograph and
WipFrag of course!

The Forum....for
questions and answers.

Q:The Wipfrag graph shows a maximum size that does not seem to relate to the biggest particle in the Image. This maximum is often exactly the same for multiple images in the same study. Why?

A:The maximum on the red graph is not a measure of the largest block, but rather the mid-point of the largest size class. Because we are dealing with statistical distributions, the values for individual blocks are lost early on in the calculation. Consequently, it is not unreasonable that the max value should stay the same for images with similar sized large blocks. **If you wish to characterize the largest blocks, we would recommend the D90 parameter on the cumulative graph.**

Q: Is WipFrag year 2000 compliant?

A: WipFrag is not affected by the changeover of the computer clock to the year 2000. WipFrag does not use the date for anything other than reporting purposes. In some cases the date is reported as ,

Cont. 2000 Compliant

"1998", in other instances just the last two digits "98". In no case will the operation of WipFrag be affected by the date. However, it is up to the individual user to determine if hardcopy, disk file, or RS232 outputs could affect their systems during the year 2000 changeover.

Q: What is WipJoint and what is its use?

A: WipJoint is an optional "add on" module for your WipFrag system that allows you to characterize the in-situ jointing structure of the rock mass. Jointing can be the most significant of the "rock quality designations" (RQD) in blasting or stabilizing rock. As anyone who has "driven" a tunnel, a drift or is involved in "bench blasting" will tell you, "the jointing can make or break you". WipJoint quantifies this parameter and allows you to manage the job by documenting changing ground conditions and predicting blast results. (An example of a WipJoint output and definition of terms will be included in a future issue)

Questions Wanted: Please send your questions, comments or suggestions regarding WipWare products c/o info@wipware.com

Putting Technology To Work For You

WipWare has a system that is just right for your industrial needs:

WipFrag System I Workstation provides semi-automatic particle size analysis using input from camcorders, photos, slides and live samples. Interfaces with the optional WipJoint module.

WipFrag Laptop Version provides particle size analysis using

image file inputs (640 X 480 pixel resolution, 256 greytone in Bmp or Jpg format). Interfaces with optional WipJoint module.

WipFrag System II Workstation provides automatic sequencing, timing and integration of inputs allowing continuous automated monitoring of conveyor and production locations.

WipFrag System III Workstation provides continuous automated size monitoring, sequencing, timing and integration of inputs with the added feature of control of production equipment.

WipJoint Module an optional software feature which can be added to any WipFrag photoanalysis system that enables the user to characterize and measure jointing patterns that are apparent on in-situ rock surfaces.

DID YOU KNOW?

There are custom software packages available from third party sources that use WipFrag data (jointing and fragmentation measurements) in addition to drilling, loading, firing, sequence, seismic and airblast data to keep track of blasting operations. Marketed under names such as:

- **"Master Blaster"** - Integrated Explosives Management
- **"DataFrag"** - Blasting and Fragmentation Database
- **"Professional Blast Manager"**

These database management programs allow you to track all the data you need to maximize production and minimize costs. Call us for further information and contact data.

Don't Forget

- ❖ Fill out and return the attached form.
- ❖ Watch for the January Newsletter
- ❖ Write to us, we look forward to hearing from you.

Events Calendar

We will be participating in the following events this September and October .

Explosives Technology Open Pit and Underground Blasting

21-25 September 1998
Department of Mining Engineering,
Queen's University
Goodwin Hall
Kingston, ON, Canada
K7L 3N6
Fax: W. Badger @ 613-545-6597

Automation in the Aggregates Industry

18-20 October, 1998
The National Stone Association
Hyatt Regency hotel
Irvine, CA. 92714
Phone: 949-975-1234

WipWare Releases.....Enhancements made to the WipFrag Software

WIPFRAG[®] VER. 97.16 RELEASE NOTES

- Fixed bug that had well graded and uniform model reversed.
- Fixed bug that saved scale with exclusion zone
- Mouse not allowed to touch edge of image when drawing exclusion zone
- Zoom reduced to 1 before drawing exclusion zone
- Random colors in measure blocks changed to exclude black and greys
- Threshold level of zero is now allowed
- Print to printer or to file on options menu now enabled. Printer files go to a .prt sub-directory
- Increase Contrast and Decrease Contrast features added to the Stopgrab menu, for easier adjustment of the frame grabber amplifiers.
- AutoAmp feature removed from AutoWip sequence. Amplifier will need to be set before the start of AutoWip. Assumption is that the lighting during AutoWip is constant.
- Option to change scale removed from AutoWip sequence. Assumption is that the scale is kept constant.
- Changed program so that if calibration is selected in the graph menu, calibration will be carry through the AutoGraph and AutoWip modes.
- Added Gaudin-Schuhman Xmax measurement to the autowip.log.

Note: Configuration file change: old configuration file will be lost.

Note: Unless a new install is being done, a .prt subdirectory needs to be added to the WipFrag main directory.

WIPFRAG[®] VER. 97.17 RELEASE NOTE

- WipFrag[®] ver. 97.3 Release Note Added Gaudin-Schuhman Xmax parameter to the cumulative graph. This is an alternative to the Rosin-Rammler equation, and will be more fully implemented later. The n value is currently common to R-R and G-S. The reported G-S Xmax is for the WipFrag raw data, and is currently not affected if the R-R calibration is used.
- Standard autowip.log output defined, each line:

Year (last two digits)	D75
Month	D90
Day	Xc
Hour	N
Minute	Xmax
Second	Xc (calibrated solution only, otherwise 0.0)
D10	N (calibrated solution only, otherwise 0.0)
D25	Xmax (calibrated solution only, otherwise 0.0)
D50	

- Standard autowip RS232 output defined as above, on Com2: at 9600 baud, no parity, 7 data bits, 1 stop bit.
- Checks to disallow RS232 mode when CTS (clear to send) and DSR (data set ready) control signals not present. (Error messages)
- Fixed internal copying bug, that resulted in distortion of image files.
- Scale is now retained at startup.
- Manual input of scaling factor allowed in options menu, for situations like conveyor belts where the scaling is lost, and it would be inconvenient to re-image a scale bar.

WIPFRAG[®] VER. 98.3 RELEASE NOTE

- Most parameters now are camera specific, i.e. different values are stored for each camera (1, 2), and for camera 0 which is used for disk files
- Added fines routine, where the user can identify a zone of fines, and assign a specific size to the fines. This data is carried through to the data file and is reflected in the graphs.
- Added keyboard functionality – Cursor arrow can be moved by keyboard and items can be selected by pressing enter when the cursor arrow is over the field of that item.

- Fixed bug that did not allow standard autowip to be executed without a serial device (v97.44).
- Added system II printing capabilities (v 97.45).
- Added fix so that image is blanked before changing camera (v 97.46). Now selecting an open input will not result in the digitization of a false image.
- Added checks for blank image during processing. Autowip (system 1) will terminate in the case of a blank image. Autowip System 2 will report the error and continue processing.
- Added the ability to read JPEG files from the .JPG directory and from the A: drive.
- Added check for drive A: not ready.
- Added TTL input check (system II).
- Fixed bug that reported wrong D₅₀ to legend on histogram (screen only).
- Fixed bug that did not allow simultaneous use of image rotation and exclude zone.
- Added option in system to split the autowip log files at midnight.
- Improved the image rotation function
- Improved the Rosin-Rammer Calibration

Newsletter Delivery Routes

To update our data base and facilitate the delivery of your newsletter, please answer all of the questions on the form below and return it by fax to 705-776-1580 or mail to; WipWare Inc., 145 Palangio Road, Bonfield, ON, POH 1E0, CANADA

Business Name: _____	
Contact Person/Title: _____	
Box/Street# _____	City _____
State/Province _____	Country _____
Postal/Zip Code _____	Phone _____
Fax No. _____	E-Mail _____

Preferred Method of Delivery for Newsletters

Mail () Fax () E-mail ()

Comment:

WipFrag

Because you can't manage what you can't measure!