



# *“PI Baking” Contest*

Pete Long

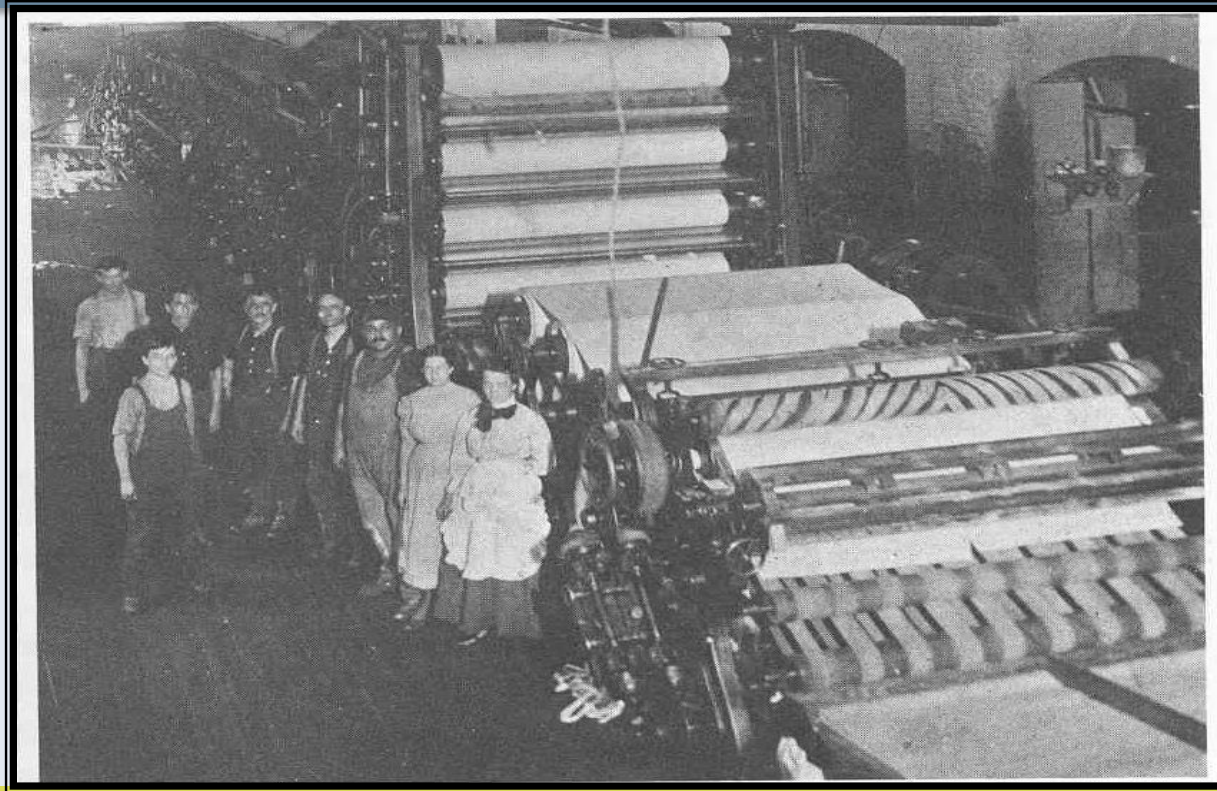
– PI Administrator

Jason Leiby

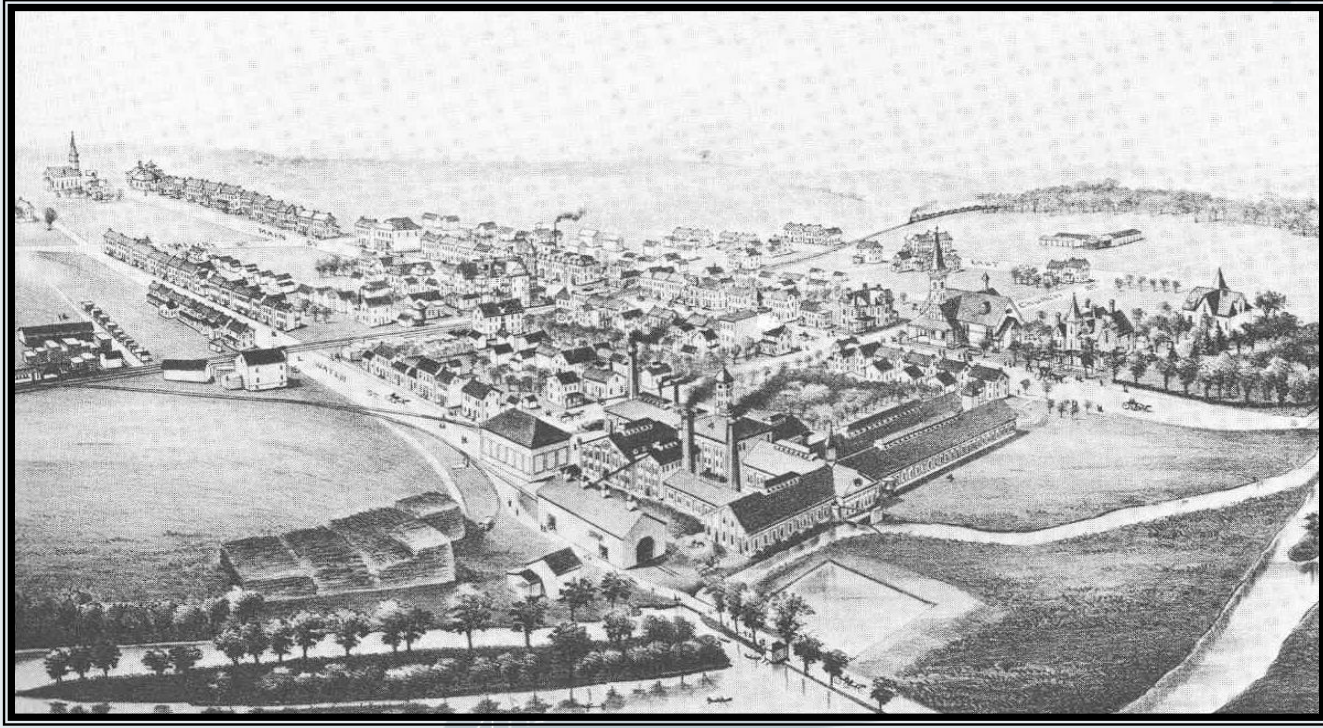
– Sr. Process Engineer

**Empowering Business in Real Time**  
**PI Infrastructure for the Enterprise**

# 1863 - First Paper Machine

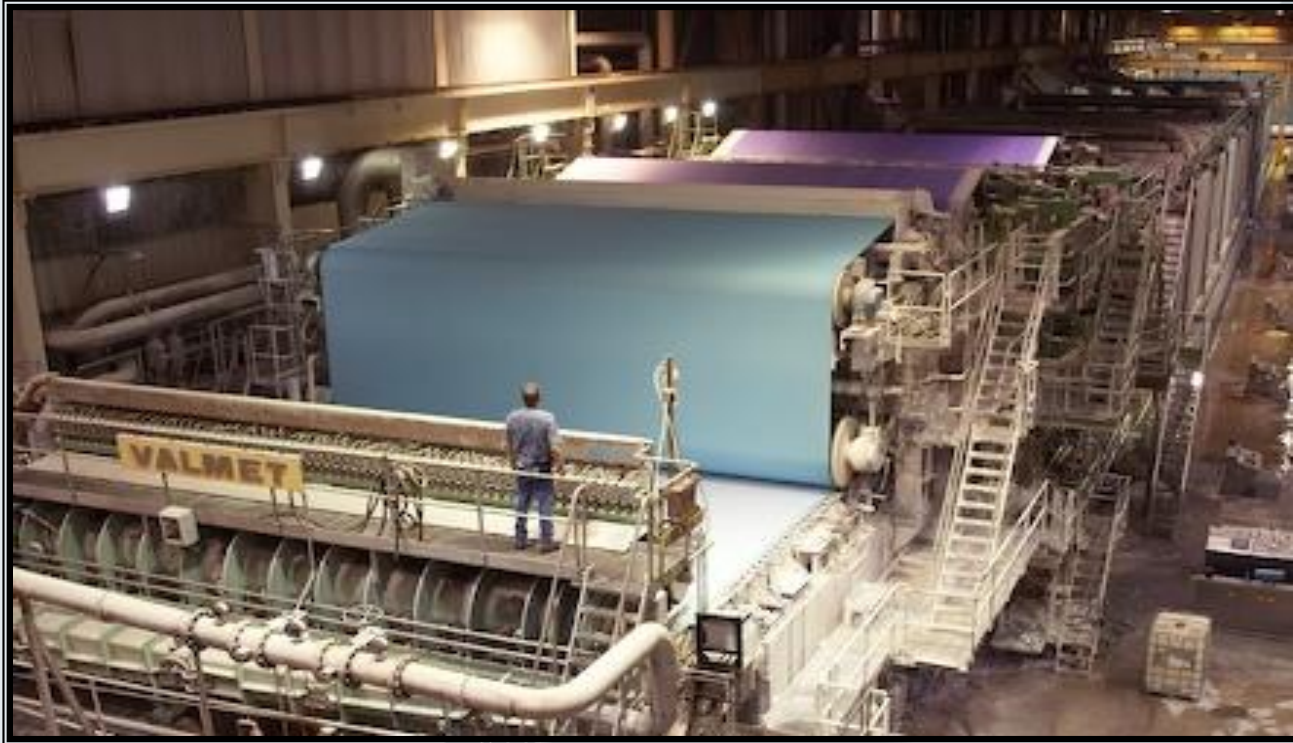


# Spring Grove Mill - circa 1887





# Today's Paper Machines

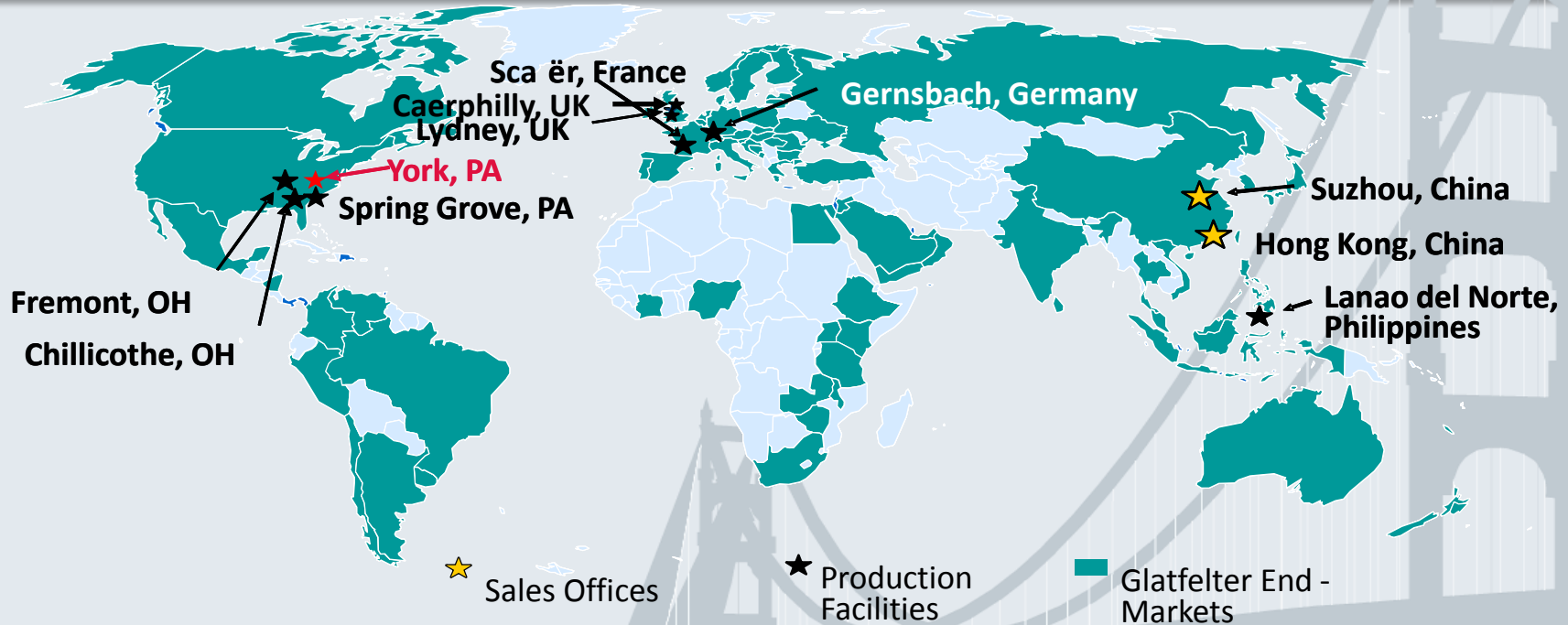




# Spring Grove Mill Today

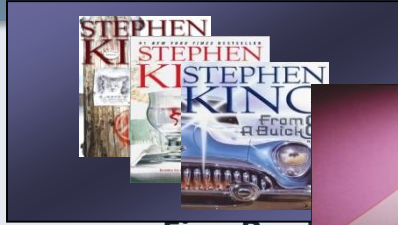


# Glatfelter Worldwide



Glatfelter operates globally with production facilities located in the U.S., Europe and the Philippines, and it markets products into ~80 countries worldwide.

# Specialty Papers



– Fine Book



Industrial



pers



and Laminates

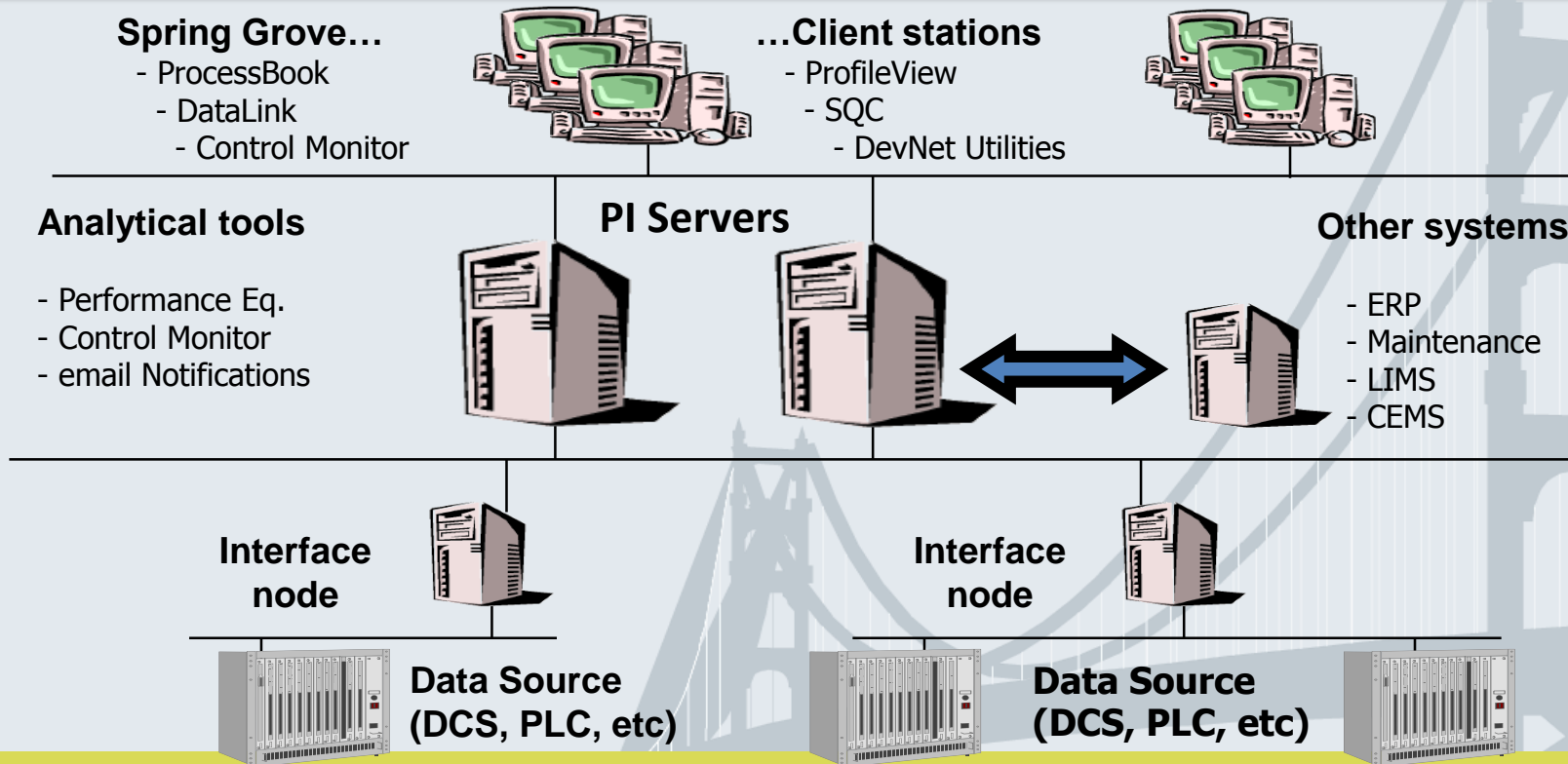


iture





# Spring Grove Architecture...



# It's my data, and I want it now!



# A Power Mower for Power Ideas





# Looking for a Super Hero!



# ...easy as PI -or- PI is so easy a...



# Display Case and Prizes





# OSIsoft on-site Presentation

**Understand a product and its capabilities and  
your imagination creates its uses.**



# Some Q & A Time



# Live Webinar

**Network Recording Player - Webex for PH Glatfelter**

Meeting Number: 330 933 961 Date: Monday, December 08, 2008 Time: 9:36 AM, Local Time (GMT -05:00)

**Batch Search Results**

Batch ID	Start Time	End Time	Batch Name
BIDEX36	12/8/2008 8:0	12/8/2008 8:5	BIDEX36
BIDEX37	12/8/2008 8:5	12/8/2008 9:0	BIDEX37
BIDEX38	12/8/2008 9:0	12/8/2008 9:1	BIDEX38
BIDEX39	12/8/2008 9:1	12/8/2008 9:2	BIDEX39
BIDEX40	12/8/2008 9:2	12/8/2008 9:3	BIDEX40
BIDEX41	12/8/2008 9:3	12/8/2008 9:4	BIDEX41
BIDEX42	12/8/2008 9:4	12/8/2008 9:5	BIDEX42
BIDEX43	12/8/2008 9:5	12/8/2008 10:0	BIDEX43
BIDEX44	12/8/2008 10:0	12/8/2008 10:1	BIDEX44
BIDEX45	12/8/2008 10:1	12/8/2008 10:2	BIDEX45
BIDEX46	12/8/2008 10:2	12/8/2008 10:3	BIDEX46
BIDEX47	12/8/2008 10:3	12/8/2008 10:4	BIDEX47
BIDEX48	12/8/2008 10:4	12/8/2008 10:5	BIDEX48
BIDEX49	12/8/2008 10:5	12/8/2008 11:0	BIDEX49
BIDEX50	12/8/2008 11:0	12/8/2008 11:1	BIDEX50
BIDEX51	12/8/2008 11:1	12/8/2008 11:2	BIDEX51
BIDEX52	12/8/2008 11:2	12/8/2008 11:3	BIDEX52
BIDEX53	12/8/2008 11:3	12/8/2008 11:4	BIDEX53
BIDEX54	12/8/2008 11:4	12/8/2008 11:5	BIDEX54
BIDEX55	12/8/2008 11:5	12/8/2008 12:0	BIDEX55
BIDEX56	12/8/2008 12:0	12/8/2008 12:1	BIDEX56
BIDEX57	12/8/2008 12:1	12/8/2008 12:2	BIDEX57
BIDEX58	12/8/2008 12:2	12/8/2008 12:3	BIDEX58
BIDEX59	12/8/2008 12:3	12/8/2008 12:4	BIDEX59
BIDEX60	12/8/2008 12:4	12/8/2008 12:5	BIDEX60
BIDEX61	12/8/2008 12:5	12/8/2008 1:0	BIDEX61
BIDEX62	12/8/2008 1:0	12/8/2008 1:1	BIDEX62
BIDEX63	12/8/2008 1:1	12/8/2008 1:2	BIDEX63
BIDEX64	12/8/2008 1:2	12/8/2008 1:3	BIDEX64
BIDEX65	12/8/2008 1:3	12/8/2008 1:4	BIDEX65
BIDEX66	12/8/2008 1:4	12/8/2008 1:5	BIDEX66
BIDEX67	12/8/2008 1:5	12/8/2008 2:0	BIDEX67
BIDEX68	12/8/2008 2:0	12/8/2008 2:1	BIDEX68
BIDEX69	12/8/2008 2:1	12/8/2008 2:2	BIDEX69
BIDEX70	12/8/2008 2:2	12/8/2008 2:3	BIDEX70
BIDEX71	12/8/2008 2:3	12/8/2008 2:4	BIDEX71
BIDEX72	12/8/2008 2:4	12/8/2008 2:5	BIDEX72
BIDEX73	12/8/2008 2:5	12/8/2008 3:0	BIDEX73
BIDEX74	12/8/2008 3:0	12/8/2008 3:1	BIDEX74
BIDEX75	12/8/2008 3:1	12/8/2008 3:2	BIDEX75
BIDEX76	12/8/2008 3:2	12/8/2008 3:3	BIDEX76
BIDEX77	12/8/2008 3:3	12/8/2008 3:4	BIDEX77
BIDEX78	12/8/2008 3:4	12/8/2008 3:5	BIDEX78
BIDEX79	12/8/2008 3:5	12/8/2008 4:0	BIDEX79
BIDEX80	12/8/2008 4:0	12/8/2008 4:1	BIDEX80
BIDEX81	12/8/2008 4:1	12/8/2008 4:2	BIDEX81
BIDEX82	12/8/2008 4:2	12/8/2008 4:3	BIDEX82
BIDEX83	12/8/2008 4:3	12/8/2008 4:4	BIDEX83
BIDEX84	12/8/2008 4:4	12/8/2008 4:5	BIDEX84
BIDEX85	12/8/2008 4:5	12/8/2008 5:0	BIDEX85
BIDEX86	12/8/2008 5:0	12/8/2008 5:1	BIDEX86
BIDEX87	12/8/2008 5:1	12/8/2008 5:2	BIDEX87
BIDEX88	12/8/2008 5:2	12/8/2008 5:3	BIDEX88
BIDEX89	12/8/2008 5:3	12/8/2008 5:4	BIDEX89
BIDEX90	12/8/2008 5:4	12/8/2008 5:5	BIDEX90
BIDEX91	12/8/2008 5:5	12/8/2008 6:0	BIDEX91
BIDEX92	12/8/2008 6:0	12/8/2008 6:1	BIDEX92
BIDEX93	12/8/2008 6:1	12/8/2008 6:2	BIDEX93
BIDEX94	12/8/2008 6:2	12/8/2008 6:3	BIDEX94
BIDEX95	12/8/2008 6:3	12/8/2008 6:4	BIDEX95
BIDEX96	12/8/2008 6:4	12/8/2008 6:5	BIDEX96
BIDEX97	12/8/2008 6:5	12/8/2008 7:0	BIDEX97
BIDEX98	12/8/2008 7:0	12/8/2008 7:1	BIDEX98
BIDEX99	12/8/2008 7:1	12/8/2008 7:2	BIDEX99
BIDEX100	12/8/2008 7:2	12/8/2008 7:3	BIDEX100

**North Plant**

Layer 1 Layer 2 Layer 3

ALL On ALL Off

8.80

6.10

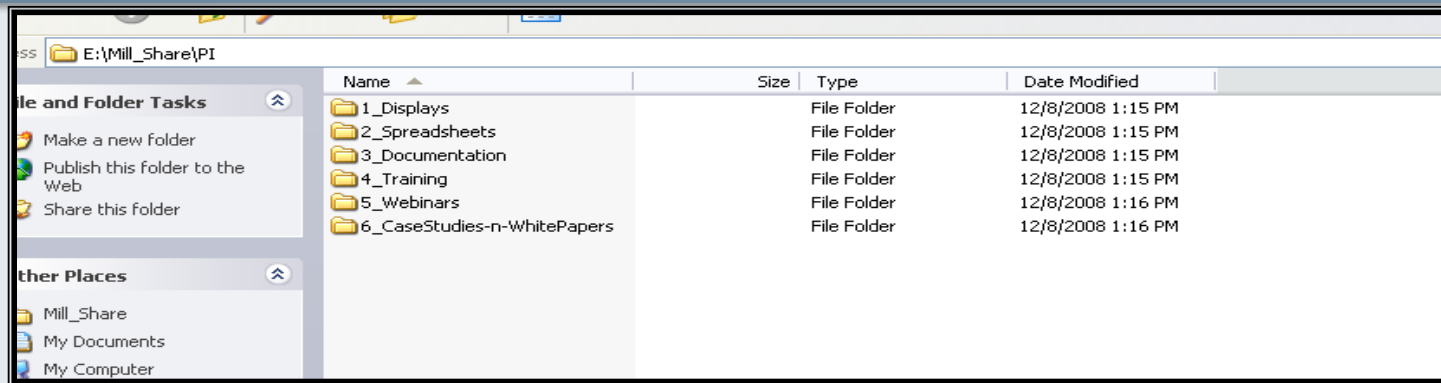
```
Private Sub omdToggleLayer2_click()  
Dim ItemNum As Integer  
ItemNum = 2  
Call ToggleLayer(ItemNum)  
End Sub  
Private Sub omdToggleLayer3_click()  
Dim ItemNum As Integer  
ItemNum = 3  
Call ToggleLayer(ItemNum)  
End Sub  
Private Sub ToggleLayer(ItemNum As Integer)  
Dim Layer As Layer  
Dim ItemNum As Integer  
Set Layer = ThisDisplay.Layers.Item(ItemNum)  
oToggle = Layer.Visible  
If oToggle = "True" Then  
Layer.Visible = False  
ElseIf oToggle = "False" Then  
Layer.Visible = True  
End If  
ThisDisplay.Modified = False  
End Sub  
Private Sub omdAllLayersOn_click()  
Call LayerOn(1)  
Call LayerOn(2)  
Call LayerOn(3)  
End Sub  
Private Sub omdAllLayersOff_click()  
Call LayerOff(1)  
Call LayerOff(2)  
Call LayerOff(3)  
End Sub  
Private Sub LayerOn(ItemNum As Integer)  
Dim Layer As Layer  
Set Layer = ThisDisplay.Layers.Item(ItemNum)
```



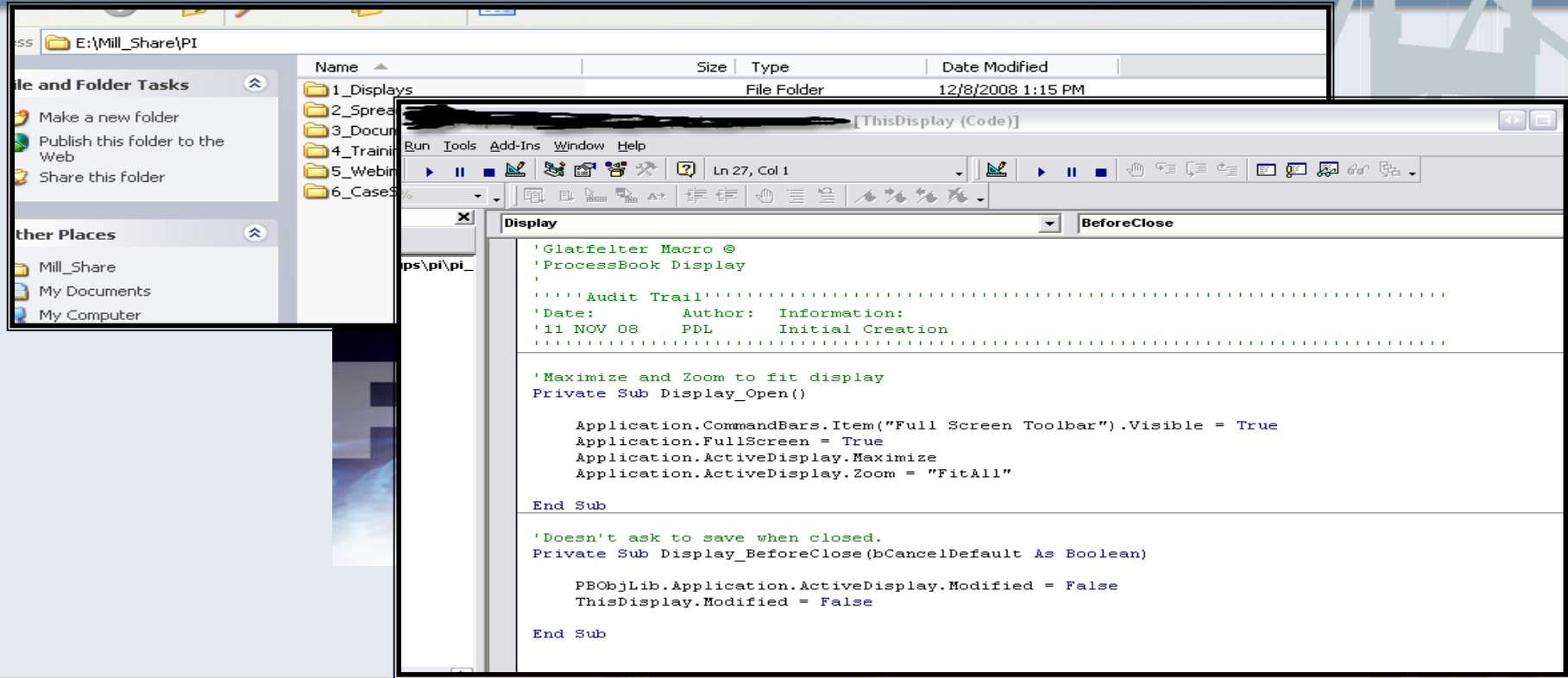
# The Grand Prize



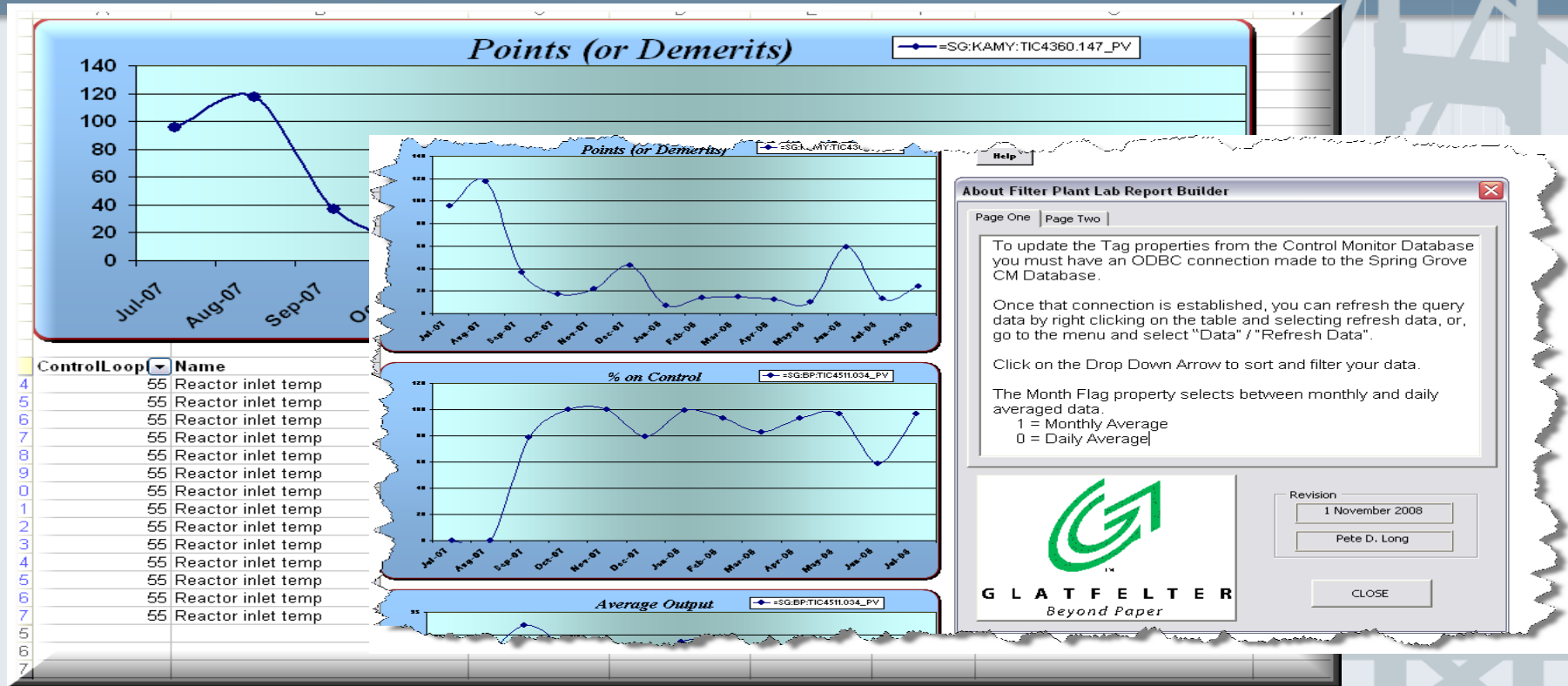
# Improving the User Experience...



# Improving the User Experience...

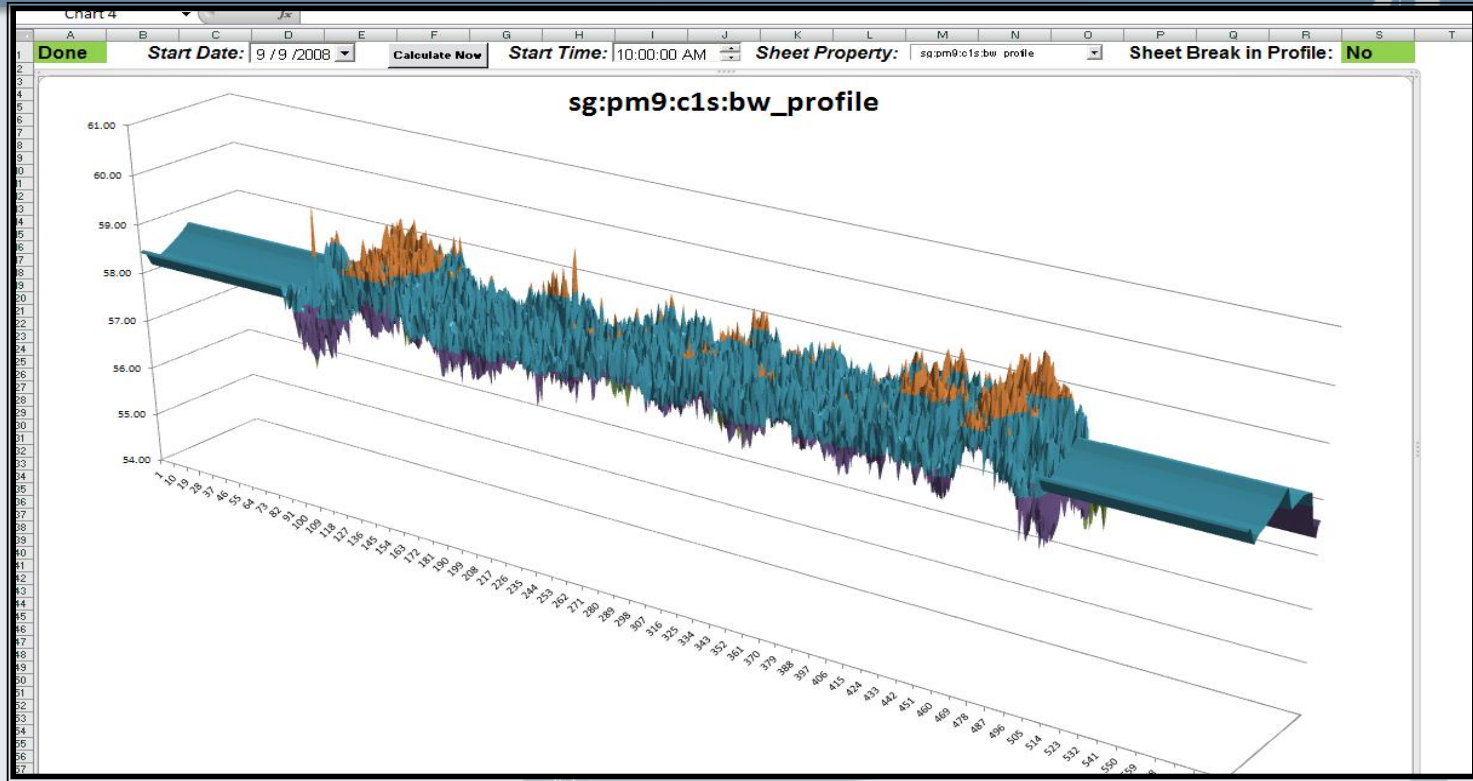


# Contest example... “Value Now”

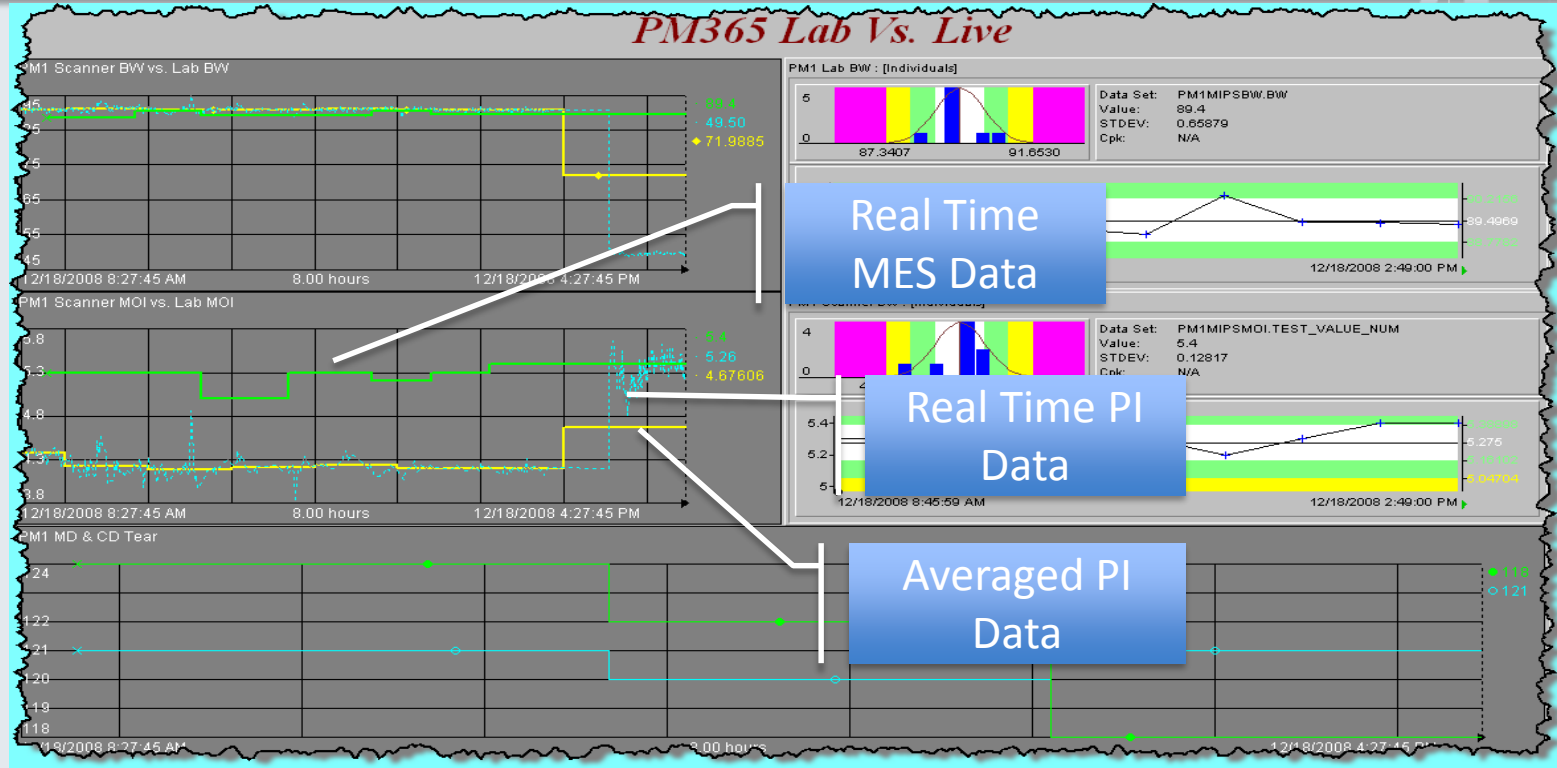




# Contest example... “Value Now”



# Contest example... “Value Now”



# Contest example... "Value Now"

Tab Illustration Charts Links

N43     $f_x$  =PICalcVal(\$N\$2,\$B43,\$B44,"average",1,0,"paperpi")

6 / 2 /2008    3 :00:00 AM    Retrieve Data

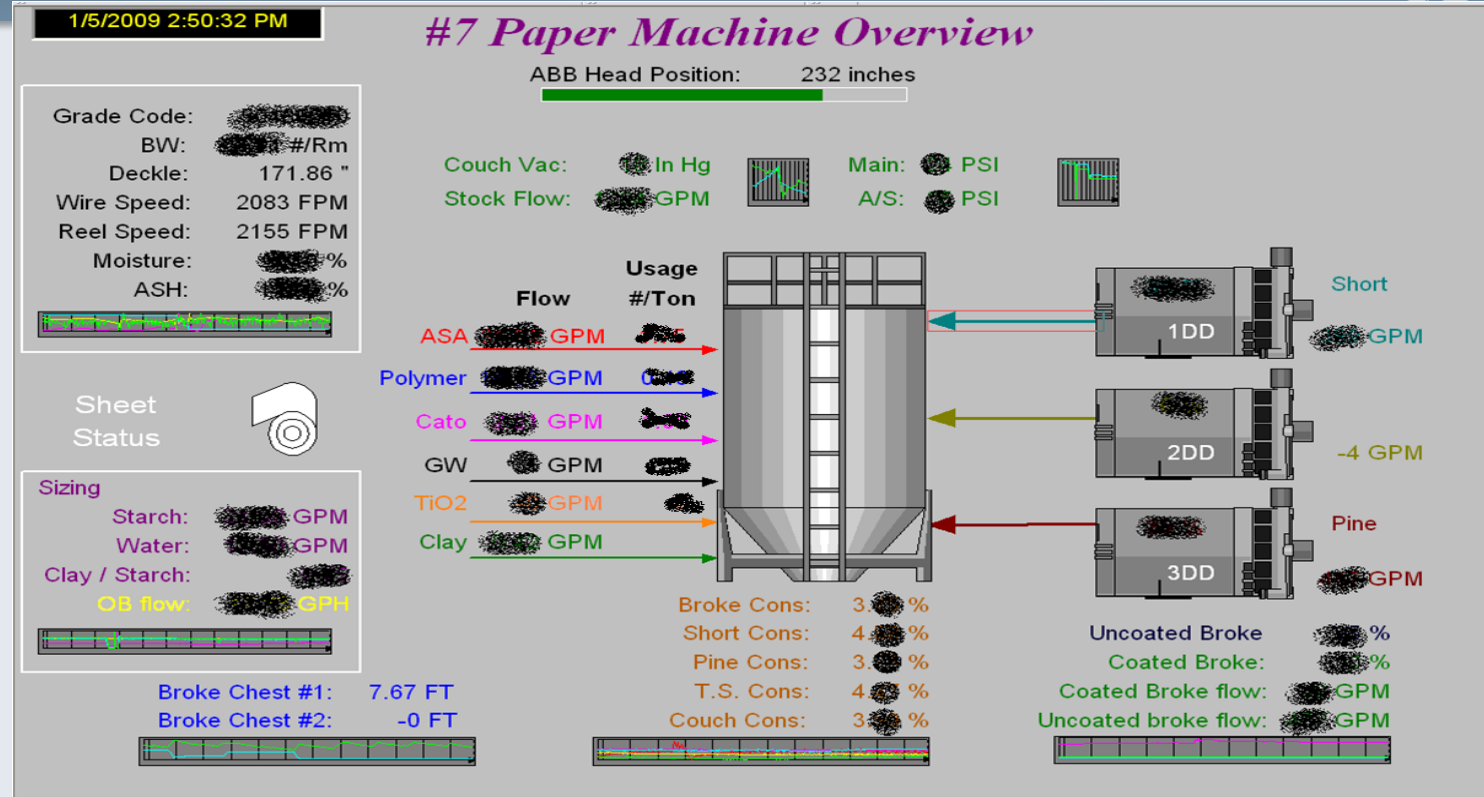
Wire Reel Stock Jet/ Dryers Dryers 3 Dryers Pine2

N43     $f_x$  =PICalcVal(\$N\$2,\$B43,\$B44,"average",1,0,"paperpi")

6 / 2 /2008    3 :00:00 AM    Retrieve Data

	Grade	Date/Time	Wire Speed	Reel Speed	Dry Flow	Stock Flow	BW	Moisture	Jet/ Wire	Formation	Dryers 1&2	Dryers 3-6	Dryers 7-10
5	10256	6/2/2008 3:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
6	10256	6/2/2008 1:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.1	6.0
7	10256	6/1/2008 23:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
8	10256	6/1/2008 21:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
9	10256	6/1/2008 19:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
10	10256	6/1/2008 17:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	5.0
11	15545	5/31/2008 5:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
12	15550	5/31/2008 3:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
13	15550	5/31/2008 1:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
14	15550	5/30/2008 23:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
15	15550	5/30/2008 21:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
16	15550	5/30/2008 19:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
17	15555	5/30/2008 17:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
18	15555	5/30/2008 15:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.4	1.0	6.0
19	15555	5/30/2008 13:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
20	10256	5/30/2008 11:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0
21	10256	5/30/2008 9:00	7300	7350	560.0	1350	45.0	4.5	1.030	9.2	0.5	1.0	6.0

# Contest example... "Value Now"





# Contest example... “Value Now”

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	HRDW 2008	DO STG	DO STG	DO CLO2	DO GAL	DO H2SO4	EP STG	EP NaOH	EP STG	EP H2O2	D1 STG	D1 CLO2	DO STAGE	DO STAGE	EP STAGE		D1 STAGE	TOTAL	
2		PROD RATE	% CL2 Equiv	LBS / TON	H2SO4	LBS / TON	%NaOH	LBS / TON	%H2O2	LBS / TON	%CLO2	LBS / TON	CIO2	H2SO4	NaOH	H2O2	CIO2	COST /TON	
3	JANUARY	320.8	3.26	24.73	403.1	19.3	1.62	32.47	0.6	12.08	0.60	12.08	\$1.06	\$0.67	\$0.17	\$3.75	\$6.64	\$34.29	
4	FEBRUARY	318.3	3.25	24.73	403.1	19.3	1.62	32.47	0.6	12.08	0.60	12.08	\$1.06	\$0.67	\$0.17	\$3.75	\$6.64	\$34.29	
5	MARCH	312.2	3.09	24.73	403.1	19.3	1.62	32.47	0.6	12.08	0.60	12.08	\$1.06	\$0.67	\$0.17	\$3.75	\$6.64	\$34.29	
6	APRIL	318.3	3.25	24.73	403.1	19.3	1.62	32.47	0.6	12.08	0.60	12.08	\$1.06	\$0.67	\$0.17	\$3.75	\$6.64	\$34.29	
7	MAY	312.2	3.09	24.73	403.1	19.3	1.62	32.47	0.6	12.08	0.60	12.08	\$1.06	\$0.67	\$0.17	\$3.75	\$6.64	\$34.29	
8	JUNE	328.0	3.20	24.73	403.1	19.3	1.62	32.47	0.6	12.08	0.60	12.08	\$1.06	\$0.67	\$0.17	\$3.75	\$6.64	\$34.29	
9	JULY	342.3	3.13	23.79	324.5	17.1	1.39	27.62	0.48	9.68	0.68	13.57	\$1.31	\$1.00	\$0.03	\$3.64	\$6.60	\$29.78	
10	AUGUST	342.3	3.13	23.79	324.5	17.1	1.39	27.62	0.48	9.68	0.68	13.57	\$1.31	\$1.00	\$0.03	\$3.64	\$6.60	\$29.78	
11	SEPTEMBER	342.3	3.13	23.79	324.5	17.1	1.39	27.62	0.48	9.68	0.68	13.57	\$1.31	\$1.00	\$0.03	\$3.64	\$6.60	\$29.78	
12	OCTOBER	342.3	3.13	23.79	324.5	17.1	1.39	27.62	0.48	9.68	0.68	13.57	\$1.31	\$1.00	\$0.03	\$3.64	\$6.60	\$29.78	
13	NOVEMBER	342.3	3.13	23.79	324.5	17.1	1.39	27.62	0.48	9.68	0.68	13.57	\$1.31	\$1.00	\$0.03	\$3.64	\$6.60	\$29.78	
14	DECEMBER	249.9	3.18	24.20	465.5	28.6	1.59					12.00	\$13.31	\$1.00	\$0.03	\$3.64	\$6.60	\$29.78	
15																			
16	2008 AVERAGE	316.7	3.27	24.84	372.8	18.4	1.46	29.23	0.54	10.89	0.61	12.20	\$13.66	\$0.64	\$5.55	\$3.37	\$6.71	\$29.94	
17																			
18																			
19																			
20	HRDW 2008	METSO	METSO BRI	DO STG FEE	DO STG	DO STG	DO B												
21		BRITE	STDEV	KAPPA SPP	PH	BRITE	STDEV												
22	JANUARY	46.61	1.66	8.3	3.86	59.1	81.4												
23	FEBRUARY	45.02	1.66	8.3	3.86	59.1	81.4												
24	MARCH	44.42	1.66	8.3	3.86	59.1	81.4												
25	APRIL	44.42	1.66	8.3	3.86	59.1	81.4												
26	MAY	44.42	1.66	8.3	3.86	59.1	81.4												
27	JUNE	44.42	1.66	8.3	3.86	59.1	81.4												
28	JULY	14.54	10.91	5.7	4.38	58.5													
29	AUGUST	23.03	8.23	5.7	4.38	58.5													
30	SEPTEMBER	23.03	8.23	5.7	4.38	58.5													
31	OCTOBER	23.03	8.23	5.7	4.38	58.5													
32	NOVEMBER	23.03	8.23	5.7	4.38	58.5													
33	DECEMBER	44.52	2.74	5.4	5.21	61.9													
34																			
35	2008 AVERAGE	37.26	4.40	6.7	4.16	59.8													
36																			
37																			
38	H2O2																		
39	CIO2																		
40	NaOH																		
41	H2SO4																		
42	STEAM																		
43																			
44																			
45																			
46																			

# Contest example... "Value Now"

D6     $\pi$  =PIAdvCalcFilVal(D\$5,\$B6,\$B7,("sg:pm7:ReelShtBrk' = ""Sheet'""),"average","time-weighted","pt. compressed","10m",10,1,0,"paperpi")

	A	B	C	D	E	F	G	H	I
1		This function will calculate a time-weighted average of data only when the sheet is on the reel							
2		Type the filter expression as ('sg:pm7:ReelShtBrk' = "Sheet") with quotes exactly as I have them							
3							This section is just to show that it isn't ave		
4			Reel sheet-break flag	SAVEALL PIT LEVEL MV	1st Felt Uhle Box		Average:		3.31
5			sg:pm7:ReelShtBrk	sg:pm7:LIC5470.085_PV	sg:pm7:FIT5470.409			sg:pm7:Resg:pm7:L	
6		9/1/08 7:00	Sheet	5.25	84.32		9/9/2008 7:00	No Sheet	2.95
7		9/2/08 7:00	Sheet	5.41	83.13		9/9/2008 8:00	No Sheet	0.02
8		9/3/08 7:00	Sheet	5.24	83.17		9/9/2008 9:00	No Sheet	0.03
9		9/4/08 7:00	Sheet	4.06	82.80		9/9/2008 10:00	No Sheet	0.04
10		9/5/08 7:00	Sheet	4.11	81.59		9/9/2008 11:00	No Sheet	0.05
11		9/6/08 7:00	No Sheet	4.00	81.21		9/9/2008 12:00	No Sheet	1.29
12		9/7/08 7:00	Sheet	5.01	82.35		9/9/2008 13:00	No Sheet	3.22
13		9/8/08 7:00	Sheet	4.72	81.62		9/9/2008 14:00	No Sheet	5.09
14		9/9/08 7:00	No Sheet	4.00	75.20		9/9/2008 15:00	No Sheet	5.72
15		9/10/08 7:00	Sheet	4.00	54.67		9/9/2008 16:00	No Sheet	5.77
16		9/11/08 7:00	Sheet	4.00	36.20		9/9/2008 17:00	No Sheet	3.28
17		9/12/08 7:00	Sheet	4.00	37.84		9/9/2008 18:00	No Sheet	3.21
18		9/13/08 7:00	Sheet	4.00	38.03		9/9/2008 19:00	No Sheet	4.01
19		9/14/08 7:00	Sheet	4.00	37.32		9/9/2008 20:00	No Sheet	4.00
20		9/15/08 7:00	Sheet	4.00	36.96		9/9/2008 21:00	No Sheet	3.99
21		9/16/08 7:00	Sheet	4.00	36.67		9/9/2008 22:00	Sheet	4.01
22		9/17/08 7:00	Sheet	4.00	35.91		9/9/2008 23:00	Sheet	4.00
23		9/18/08 7:00	Sheet	4.00	35.98		9/10/2008 0:00	Sheet	4.00
24		9/19/08 7:00	Sheet	4.00	37.56		9/10/2008 1:00	Sheet	4.00
25		9/20/08 7:00	Sheet	4.00	37.35		9/10/2008 2:00	Sheet	4.00
26		9/21/08 7:00	Sheet	4.00	35.78		9/10/2008 3:00	Sheet	4.00
27		9/22/08 7:00	Sheet	4.00	38.89		9/10/2008 4:00	Sheet	4.00
28		9/23/08 7:00	Sheet	4.00	37.56		9/10/2008 5:00	Sheet	4.00
29		9/24/08 7:00	Sheet	4.00	133.87		9/10/2008 6:00	Sheet	4.00
30		9/25/08 7:00	Sheet	4.00	147.00		9/10/2008 7:00	Sheet	4.00
31		9/26/08 7:00	Sheet	4.00	148.26		9/10/2008 8:00	Sheet	
32		9/27/08 7:00	Sheet	4.00	147.30				
33		9/28/08 7:00	Sheet						
34									
35									
36									
37									
38									
39									
40									
41									
42									

Calculated Data

- ☒ PI Tag
- ☐ PI Expression

PI Server (optional)

paperpi

Tagname(s)

\$D\$5:\$E\$5

Start Time

Sheet1!\$B\$6

End Time

Sheet1!\$B\$7

Time Interval (optional)

Filter Expression (optional)

['sg:pm7:ReelShtBrk' = 'S

Conversion Factor

1

Calculation Mode

average

Advanced

Calculation Basis

time-weighted

Expression Sampling

point compressed

Expression Sampling Frequen

10m

Minimum Percent Good

10

Output Cell

# Contest example... "Value Now"

Grade	Date/Time	Wire Speed	Dry Flow	Stock Flow	BW	GW	ASA	TIO2	OB	1DD	2DD	Pine 2DD	3DD	4DD	Short 3DD	Pine	Short	Broke	Coated	Deckle	Main	5th
14468	12/3/2008 21:00	1628	446.3	1203	68	152	0.66	0	0.0	20.6	20.6	0	22.0	22.4	0	44.4	41.2	14.1		181.4		
14468	12/3/2008 20:00	1628	448.5	1193	68	151	0.70	0	0.0	20.8	20.8	0	22.0	22.6	0	44.6	41.6	13.0		181.4		
14468	12/3/2008 19:00	1628	450.0	1199	68	147	0.73	0	0.0	20.9	20.4	0	22.0	22.6	0	44.6	41.3	13.6		181.3		
14468	12/3/2008 18:00	1628	453.2	1232	68	145	0.76	0	0.0	20.1	20.0	0	22.0	22.7	0	44.7	40.1	14.9		181.1	38.1	24
14468	12/3/2008 17:00	1628	454.2	1317	68	148	0.78	0	0.0	20.0	20.0	0	22.0	22.8	0	44.8	40.0	15.0		181.2	38.1	26
14468	12/3/2008 16:00	1628	448.1	1357	67	148	0.81	0	0.0	20.0	20.0	0	22.0	22.9	0	44.9	40.0	15.0		181.7	38.0	27
14468	12/3/2008 15:00	1628	449.7	1290	67	147	0.83	0	0.0	20.0	20.0	0	22.0	22.8	0	44.8	40.0	15.2		181.8	38.1	29
14468	12/3/2008 14:00	1627	459.8	1268	68	144	0.86	0	0.0	20.0	20.0	0	21.3	21.3	0	42.5	40.0	17.5		181.8	39.0	29
14468	12/3/2008 13:00	1627	467.3	1262	68	136	0.88	0	0.0	20.0	20.0	0	19.4	19.4	0	38.8	40.0	21.2	0.0	181.6	40.2	26
14468	12/3/2008 12:00	1628	475.3	1279	68	126	0.90	0	0.0	20.0	20.0	0	16.3	16.3	0	32.6	40.0	27.4	0.0	181.4	43.0	25
14468	12/3/2008 11:00	1628	475.3	1273	67	123	0.90	0	0.0	20.0	20.0	0	15.0	15.0	0	30.0	40.0	30.0	0.0	183.2	44.0	24
14468	12/3/2008 10:00	1628	467.8	1235	67	129	0.90	0	0.0	20.0	20.0	0	16.4	16.4	0	32.8	40.0	27.2	0.0	190.1	44.0	25
14468	12/3/2008 9:00	1628	462.1	1219	67	131	0.90	0	0.0	20.0	20.0	0	17.5	17.5	0	35.0	40.0	25.0	0.0	189.8	43.7	25
14468	12/3/2008 8:00	1628	460.9	1207	67	138	0.90	0	0.1	20.0	20.0	0	19.7	19.7	0	39.4	40.0	20.6	0.0	190.5	44.1	32
14468	12/3/2008 7:00	1628	463.4	1204	68	140	0.90	0	0.1	20.0	20.0	0	21.0	21.0	0	42.0	40.0	18.0	0.0	190.6	45.0	33
14468	12/3/2008 6:00	1628	466.9	1205	68	137	0.90	0	0.2	20.0	20.0	0	20.8	20.8	0	41.6	40.0	18.4	0.0	190.4	45.1	32
14468	12/3/2008 5:00	1628	464.0	1197	68	130	0.90	0	0.2	20.0	20.0	0	20.0	20.0	0	40.0	40.0	20.0	0.0	190.5	45.0	29
14468	12/3/2008 4:00	1767	460.9	1193	61	162	0.92	0	9.2	25.6	8.6	0	20.0	20.0	0	40.0	34.2	25.7	0.0	184.5	40.3	33
9361	12/3/2008 3:00	1927	479.1	1247	61	154	0.97	0	22.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	184.0	52.1	36
9361	12/3/2008 2:00	1927	482.9	1258	61	154	1.02	0	22.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	185.1	52.1	36
9361	12/3/2008 1:00	1927	486.6	1261	61	154	1.07	0	22.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	186.5	50.6	36
9361	12/3/2008 0:00	1927	490.4	1256	61	158	1.12	0	22.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	186.5	49.9	35
9361	12/2/2008 23:00	1927	494.1	1257	61	157	1.18	0	22.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	186.5	50.0	35
9361	12/2/2008 22:00	1926	494.2	1253	61	153	1.23	0	22.1	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	186.8	50.1	36
9361	12/2/2008 21:00	1932	486.4	1236	60	141	1.34	0	21.6	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	186.2	47.7	32
9351	12/2/2008 20:00	2002	424.1	1086	52	164	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	184.8	35.8	22
9351	12/2/2008 19:00	2002	421.2	1078	52	164	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	184.8	36.0	22
9351	12/2/2008 18:00	2002	418.4	1076	52	166	3.10	0	11.2	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	184.1	31.5	21
9351	12/2/2008 17:00	2002	415.6	1087	52	168	3.10	0	16.3	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.4	35.8	22
9351	12/2/2008 16:00	2002	413.4	1094	52	167	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.5	36.1	21
9351	12/2/2008 15:00	2002	411.4	1098	52	163	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.4	36.0	20
9351	12/2/2008 14:00	2002	409.5	1102	52	163	3.10	0	18.1	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.5	36.0	20
9351	12/2/2008 13:00	2002	417.7	1100	52	167	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.7	36.0	21
9351	12/2/2008 12:00	2002	422.6	1095	52	157	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.8	36.1	20
9351	12/2/2008 11:00	2001	420.3	1087	52	147	3.10	0	18.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.7	36.1	20
9351	12/2/2008 10:00	2002	417.9	1081	52	138	3.10	0	17.7	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.5	36.0	21
9351	12/2/2008 9:00	2002	414.6	1082	52	148	3.10	0	17.0	30.0	0.0	1	20.0	20.0	0	40.0	30.0	30.0	0.0	183.0	35.9	23
9351	12/2/2008 8:00	1985	407.7	1059	53	171	2.62	0	18.0	30.6	0.0	1	20.0	20.0	0	40.0	30.6	29.4	0.0	181.7	38.4	22
5850	12/2/2008 7:00	1901	355.3	905	50	317	1.10	0	21.0	35.0	0.0	1	20.0	20.0	0	40.0	35.0	25.0	0.0	176.6	37.9	21
5850	12/2/2008 6:00	1901	353.4	902	50	321	1.10	0	21.0	35.0	0.0	1	20.0	20.0	0	40.0	35.0	25.0	0.0	176.5	38.1	21
5850	12/2/2008 5:00	1901	351.4	891	51	318	1.10	0	21.0	35.0	0.0	1	20.0	20.0	0	40.0	35.0	25.0	0.0	176.6	38.2	21
5850	12/2/2008 4:00	1901	349.5	894	51	321	1.10	0	21.0	35.0	0.0	1	20.0	20.0	0	40.0	35.0	25.0	0.0	176.9	38.2	22
5850	12/2/2008 3:00	1901	347.6	908	50	326	1.10	0	21.0	35.0	0.0	1	20.0	20.0	0	40.0	35.0	25.0	0.0	176.9	38.2	22
5850	12/2/2008 2:00	1901	345.9	907	51	328	1.10	0	19.0	35.0	0.0	1	20.0	20.0	0	40.0	35.0	25.0	0.0	176.8	35.2	21

# Collecting the Vote:



G L A T F E L T E R



OSIsoft

## Glatfelter PI Baking Contest Voting Site

It's finally coming to an end; no more email updates, no more pleas.  
All the projects have been submitted, and now the only thing left is to vote for your favorite project.

Here are some suggestions that you can use for choosing the winning project:

- Is the Project useful for troubleshooting Historical Events?
- Can the Project compare current conditions with previous operations?
- Does the Project compile many complex tasks into an easy-to-use tool?
- Can the Project make our daily job easier?

All entries will be awarded a prize, but the Grand Prize is a free ticket to the 2009 OSIsoft User Conference

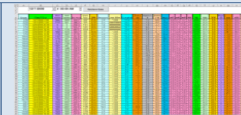


[User Conference Info](#)

Below are the projects that were submitted:  
Just click on the project icon to see more information on the project and to test it out (if you have PI).

Entries eligible for the contest:

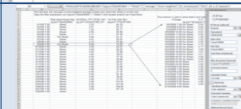
Tim [redacted]



Steve [redacted]



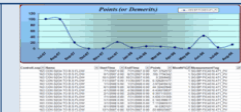
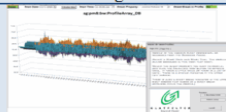
Jason [redacted]



Paul [redacted]



Entries not eligible for the contest:





# Collecting the Vote:



G L A T F E L T E R



OSIsoft™

## Project 3 by Ste

The spreadsheet imports data from the ABB DCS  
Excel calculates the monthly average cost per ton o

The data captured the benefits of a cost reduction t  
peroxide (H<sub>2</sub>O<sub>2</sub>) and sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) witho  
the costs are trending above, below, or near yearly  
based on the cell values to improve easy readability

Office 2007 is required for the cool arrows.

To vote for this project, click on "Vote for Me!" at

Please only vote for one project.

[Preview the Project in Excel](#)

[Preview the Project in Excel](#)

### Edit Hyperlink

Link to:

Text to display: Vote for Me!

ScreenTip...

Existing File or  
Web Page

E-mail address:

mailto:Pete.Long@Glatfelter.com

Subject:

Vote%20For%20Paul's%20Spreadsheet

Place in This  
Document

Recently used e-mail addresses:

mailto:Pete.Long@Glatfelter.com?subject=Vote%20For%20Paul's%20Spreadsheet  
mailto:Pete.Long@Glatfelter.com?subject=Vote%20For%20Jason's%20Opp%20Log

Create New  
Document

E-mail Address

Remove Link

OK

Cancel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	12/01/2006	DO STG	DO STG	DO CLOZ	DO GAL	DO H2O2																				
2		PROD RATE	CL2 FLOW	EB FLOW	EB FLOW	EB FLOW																				
3	JANUARY	325.9	3.28	25.56	463.1	18.31	1.62	32.41	0.0	0.0	12.03	0.60	12.03	\$14.06	\$0.67	\$6.17	\$3.75	\$6.64	\$31.25							
4	FEBRUARY	287.9	3.21	24.40	415.1	22.1	1.60	32.01	0.0	0.0	12.01	0.60	12.01	\$13.42	\$0.77	\$6.00	\$3.72	\$6.01	\$30.61							
5	MARCH	314.7	3.30	26.69	421.7	20.6	1.84	38.74	0.67	0.67	13.33	\$14.13	\$0.72	\$6.99	\$3.77	\$7.33	\$7.33	\$32.94								
6	APRIL	316.8	3.42	28.00	468.1	22.7	1.55	30.94	0.60	0.59	11.76	\$14.39	\$0.78	\$5.88	\$3.73	\$6.47	\$31.18									
7	MAY	318.3	3.25	24.73	387.2	18.7	1.36	27.26	0.60	0.60	12.02	0.58	11.55	\$13.60	\$0.65	\$5.17	\$3.73	\$6.35	\$29.50							
8	JUNE	312.2	3.09	23.53	399.7	19.6	1.32	26.36	0.58	0.56	11.13	\$12.94	\$0.69	\$5.01	\$3.58	\$6.12	\$28.34									
9	JULY	326.0	3.20	24.36	377.4	17.7	1.30	27.60	0.60	0.60	12.02	0.66	13.29	\$13.40	\$0.62	\$5.26	\$3.73	\$7.31	\$30.31							
10	AUGUST	342.3	3.13	23.79	324.8	14.6	1.30	27.82	0.40	0.60	9.68	0.68	13.57	\$13.08	\$0.51	\$5.29	\$3.00	\$7.46	\$29.34							
11	SEPTEMBER	344.7	3.34	25.41	384.8	17.1	1.30	28.10	0.50	0.61	12.22	\$13.97	\$0.60	\$4.98	\$3.09	\$6.72	\$29.35									
12	OCTOBER	330.6	3.46	26.28	223.5	10.1	1.28	25.60	0.43	0.94	0.59	11.77	\$14.48	\$0.35	\$4.86	\$2.77	\$6.47	\$28.92								
13	NOVEMBER	326.5	3.17	24.10	253.1	9.5	1.30	25.94	0.43	0.91	0.59	11.75	\$13.25	\$0.33	\$4.94	\$2.79	\$6.46	\$27.75								
14	DECEMBER	249.9	3.10	24.00	465.5	18.6	1.30	27.17	0.46	0.60	9.16	0.60	12.06	\$13.31	\$1.00	\$6.03	\$2.84	\$6.60	\$29.72							
15																										
16	2006 AVERAGE		316.7	3.27	24.84	372.8	18.4	1.46	29.23	0.54	10.89	0.61	12.20	\$13.66	\$0.64	\$5.55	\$3.37	\$6.71	\$29.94							
17																										
18																										
19	12/01/2006	DO STG	DO STG	DO CLOZ	DO GAL	DO H2O2																				
20		PROD RATE	CL2 FLOW	EB FLOW	EB FLOW	EB FLOW																				



4  
 7  
 9  
 1  
 4  
 6  
 4  
 8  
 9  
 6  
 0  
 6  
 1  
 0  
 0

Pick Grade

Run Report

Help

Date: 8/5/2008  
Time: 11:45:00 AM  
Search Time: 8/5/08 11:45 AM  
Grade Request: 14648

Run Start: 11-Aug-08 07:21:56 PM  
Run End: 12-Aug-08 12:23:55 PM  
Run Duration Days: 0.71

\$ per Hour:	\$50,859.59		
\$ per Ton:	\$5,408.02		
Totals:	\$866,294.88	\$869,727.52	\$3,432.64

Product	Units	Act. Usage	Conv. Factor	Rate	Std Use	Use Difference	Act. Cost	Std Cost	Cost Difference
Refiner 1 - HW	TPD	29.22	1	\$350.00		-29.22	\$10,226.71	\$10,482.38	\$255.67
Refiner 2 - HW	TPD	24.55	1	\$350.00		-24.55	\$8,592.85	\$8,399.66	-\$193.19
Refiner 3 - SW	TPD	66.25	1	\$468.00		-66.25	\$31,004.32	\$31,779.43	\$775.11
BROKE-BL CH	GPM	124.82	3.5	\$700.00		-124.82	\$305,807.70	\$298,932.26	-\$6,875.44
Cato Flow	GPM	86.89	0.75	\$5.00		-86.89	\$325.84	\$333.99	\$8.15
R-68 RED	GPM	-28.71	0.6	\$5.00		28.71	-\$86.12	-\$84.19	\$1.94
R-68 BLUE	GPM	24162.85	0.8	\$5.00		-24162.85	\$96,651.40	\$99,067.68	\$2,416.28
Polymer Flow	GPM	2363.40	0.35	\$5.00		-2363.40	\$4,135.95	\$4,042.97	-\$92.99
TiO2 High Flow MV	GPM	62.80	0.25	\$5.00		-62.80	\$78.50	\$80.46	\$1.96
TiO2 LO Flow	GPM	74.64	0.25	\$5.00		-74.64	\$93.30	\$91.20	-\$2.10
Glatco Wht Flow MV	GPM	24219.90	0.63	\$22.25		-24219.90	\$339,502.42	\$347,989.98	\$8,487.56
Starch Flow	GPM	14829.47	0.81	\$5.00		-14829.47	\$60,059.35	\$58,709.04	-\$1,350.31
50# to pm1	klb/hr	47449.40	1	\$0.01		-47449.40	\$602.61	\$602.61	\$0.00
Hourly Margin	Days	0.71	24	\$546.00		-0.71	\$9,300.05	\$9,300.05	\$0.00
Production	Tons	160.19							

Trend Start: 03-Aug-08 11:45:00 AM

Trend End: 07-Aug-08 11:45:00 AM

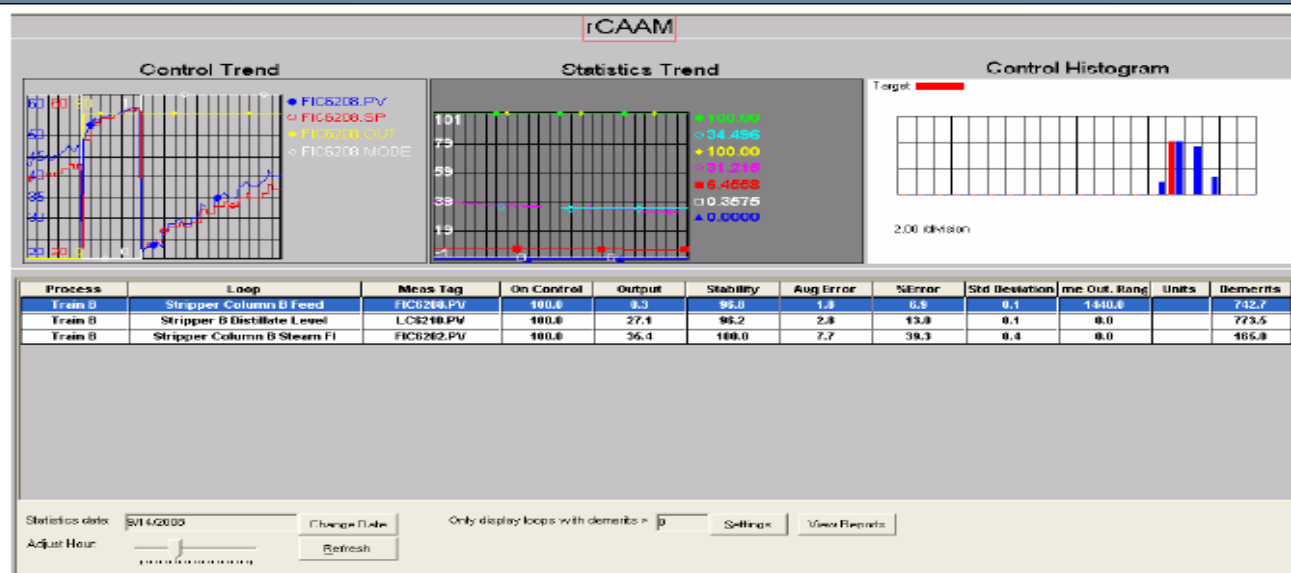
Trend Control

8/3/2008 11:45:00 AM

4 DAY(S)

8/7/2008 11:45:00 AM

# Future Drives... “Value over Time”

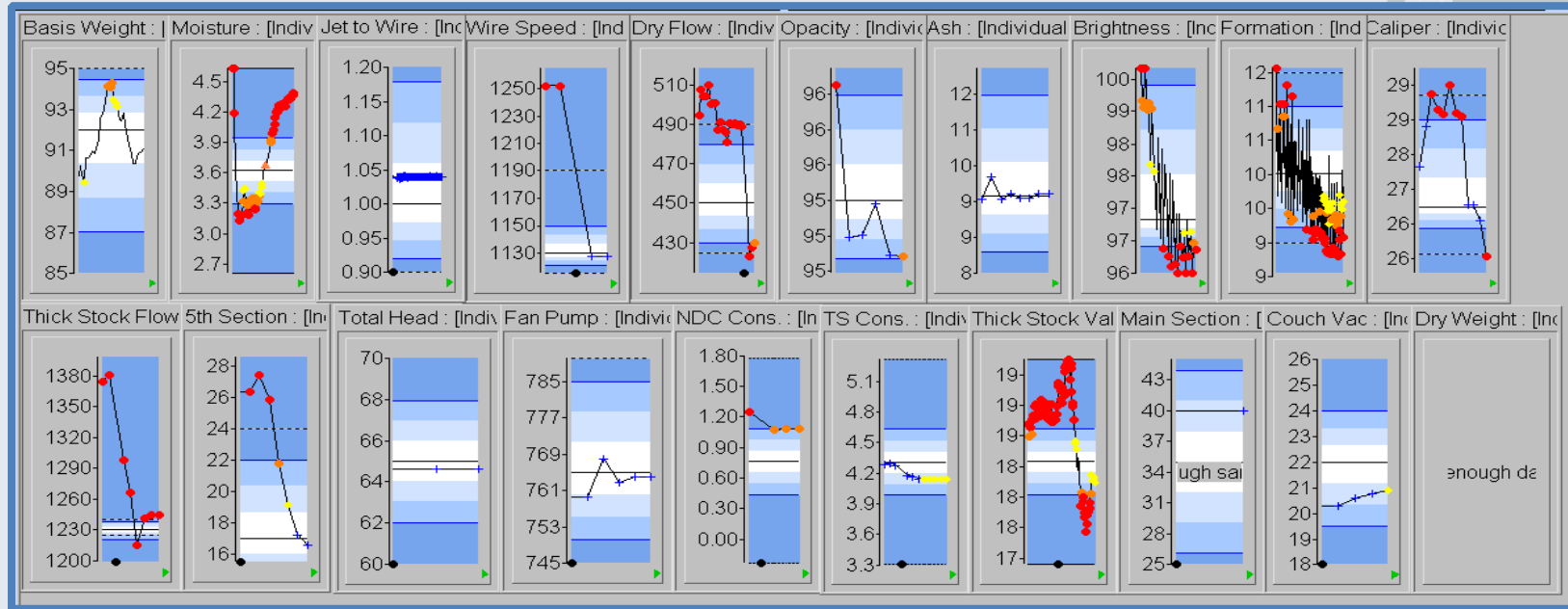


The RoviSys Company      Aurora, Ohio 330.562.8600  
[www.rovisys.com](http://www.rovisys.com)      Apex, North Carolina 919.387.1200

**ROVISYS**  
 Independent Automation Solutions



# Future Drives... “Value over Time”



# Wrap-up... “Value Now, Value over Time”

Project	Save Money	Save Time	Improve Visibility	Increase Production	Reduce Downtime
C.M. Trending		✓	✓		✓
3D Profiles		✓	✓	✓	
Lab Compare	✓	✓	✓	✓	✓
Run Properties	✓	✓	✓	✓	✓
P.M. Overview		✓	✓		
Cost vs. Quality	✓	✓	✓	✓	
Adv. Calc. Tutorial		✓	✓		
B.R. Efficiency	✓	✓	✓	✓	

# “PI Baking” Contest Q & A



G L A T F E L T E R

*Thank  
You!*