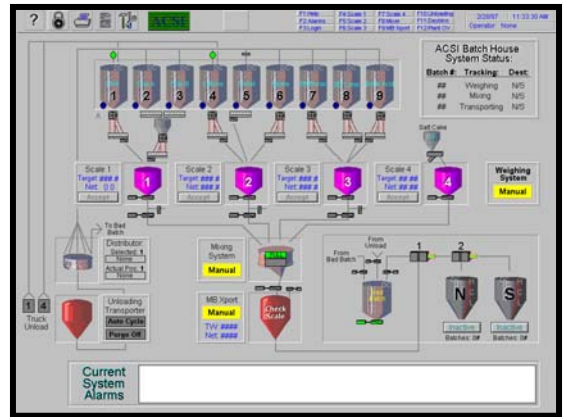


Advanced Batching Control

In batching, it is important to consistently provide the highest quality batch possible to the process while simultaneously meeting the production requirements. The ability to meet these objectives depends upon the interrelationship between the mechanical equipment and the control system in the batch plant. The control system must optimize the performance of the mechanical system by consistently monitoring the batch plant performance and automatically adjusting the control parameters. This strategy adapts to different material flow characteristics and feeding devices to ensure materials are weighed to the highest possible accuracy in the shortest possible time.

The ACSI batch system will operate with **minimal operator attention** making batches as requested to satisfy demand. The control system will operate unsupervised under normal operating conditions.



Weighing Strategy

The ACSI batch control system incorporates a proprietary Preact Adjustment Algorithm for weighing control. The ACSI-developed algorithm ensures materials are weighed accurately, monitors the final weight of each material and, if necessary, makes adjustments to compensate for feeder degradation and material flow changes. The process is entirely automatic.

Precise Weighing Control

Unlike a traditional system, the ACSI controller minimizes the number of jogs needed to get material weight as close as possible to the target weight with the goal of eliminating the jog cycle altogether. The ACSI Automatic Preact Adjustment Algorithm takes the guesswork out of the process by recording and statistically analyzing weighing performance. Deviations from target are recorded and accumulated. If the deviations start to trend out of tolerance and reach a predetermined value, the average of the over or under tolerance is added to or subtracted from the preact weight. With this adjustment made, the next weighed amount should be on target. The automatic preact adjustment strategy enables the control system to continuously adapt to changing material flow characteristics and different feeding devices.

Features

- Minimizes/eliminates jog cycle
- Improves weighing accuracy
- Minimizes/eliminates out of tolerance alarms

Benefits

- Maximizes process efficiency
- Increases cycle speed and overall throughput
- Reduces equipment wear/tear
- Ensures homogeneity from batch to batch
- Decreases material waste
- Corrects to tighter tolerances
- Reduces need for operator intervention



Check out our web site at www.acsitolledo.com.

Meet Engineer Frank Lepkowski



Hometown: Toledo, OH
Background: University of Toledo Electrical Engineering, Computer Science and Engineering
Started with ACSI: July, 2006
Favorite Movies: Iron Man, Shawshank Redemption, Transformers, and Ace Ventura Pet Detective
Favorite Fall Activity: Walking, or relaxing at a park
Interests: Fishing, Cars, Bowling, Pool, or Anything Electrical
Best thing about working at ACSI: The people....a really great group!

Meet Engineer Joel Helbig



Hometown: Bryan, OH
Background: US Air Force Security Police, CC of the Air Force / Associates in Criminal Justice, Northwest State CC / Associates in Mechanical Engineering Technologies
Spouse: Sarah who is Associate Creative Director w/ Tailford Mitchell (Advertising)
Dogs: 2 (Larry & Carol)
Started with ACSI: June 08
Favorite Movies: Red Dawn / A River Runs Through It
Favorite Fall Activity: Shooting sporting clays.
Interests: shooting, reading, taking a nap
Best thing about working at ACSI: It took two months just to meet everyone. It was like coming in to a little surprise every day.

ACSI 2008 Event Calendar

October 21-25 2008

Glasstec

Düsseldorf, Germany

November 3-4 2008

Glass Problems Conference

Columbus, Ohio

November 20-22 2008

Glasstech Asia

Ho Chi Minh City, Vietnam



Gearing up for glasstec 2008 in Düsseldorf, Germany

With new projects, new customers, and exciting new ventures, the past two years have kept all of us at ACSI extremely busy. We can't believe it's time to head to Germany again! This year, we will still be located in Hall 13., booth number 13E15. We hope to attract new clients and catch up with old friends. All of us look forward to strengthening the relationships we built in past years and learning about exciting developments in other parts of the industry.

Visit the show's website at <http://mdna.com> and click on the link 

Quick Preview of the Glass Problems Conference 2008



The 69th Glass Problems Conference will be taking place November 4-5 at Fawcett Center for Tomorrow, The Ohio State University
Visit the conference website at www.glassproblems.com

ACSI Table Top Exhibit, Stand #22, at Fawcett Center
Tuesday 8:00am-5:00pm and Wednesday 8:00am-1:30pm

ACSI Project Manager Ron Finch presents *Applications of Model Based Control in Float and Fiberglass*
Tuesday 11:00am

ACSI Reception Table at Holiday Inn on the Lane
Monday 6:00pm-12:00am and Tuesday 9:00 pm-12:00am

News from ACSI Europe *(by Arthur Lawrence)* ACSI Europe gears up for growth

Adam Harrison

We are very pleased to welcome Adam Harrison to our team of Systems Engineers at ACSI Europe. Adam, who joined us at the beginning of September, previously worked for another UK control systems company and has previous Glass industry experience of designing and commissioning Working End and Forehearth control systems. In his first couple of weeks with us he has already been on site in Russia and will soon be undertaking commissioning in Argentina. We wish him a long and successful career at ACSI. Adam will also be getting involved in our two projects in Thailand.



This quarter our team is occupied on projects far and wide; Mark Humphreys completed the commissioning of Allied Glass' Melter and Forehearth system at the end of July and is now managing the build of a Float Glass line control system for South Africa to be installed in early 2009. After designing a custom control system, Rob Hayden is now on site in Ireland for two to three weeks commissioning the controls for a confectionery packaging line at Cadbury. Following this he will be preparing for commissioning of a Float Line control system in Saudi Arabia.

Dave Douglas has just returned from China where he has been commissioning a Melter and Forehearth system on a fiberglass plant as well as completing the integration of control systems on three Melters in the plant, including setting up service access via VPN. He is now busy designing a Melter and Forehearth control system for a Container plant in Russia. He is also overseeing the design and manufacture of the first of two Melter and Forehearth control systems for a German Furnace builder, which will be installed in Thailand during 2009.

During this quarter Art Lawrence will participate in the ASEAN Federation of Glass Manufacturers technical conference in Malaysia and, on behalf of ACSI Europe, he will also take a booth at the Glasstech Asia Exhibition to be held in Ho Chi Minh City, in Vietnam during November.

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improving performance
through advanced control solutions

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