

making metals work harder since 1938

WCC
world



News from Wall Colmonoy

World's Largest Furnace

Gets an Upgrade

The largest commercial top-loading vacuum furnace in the world, Dayton's 120" x 180", was recently upgraded in order to achieve temperatures in excess of 2200°F.

In 1999, this furnace was in the trade press for its role in ITER — the International Thermonuclear Experimental Reactor — an ambitious international program undertaken to prove the viability of fusion as an energy source. In cooperation with the **Massachusetts Institute of Technology**, our 120" furnace was used to harden a large superconducting magnet coil in a complex, 25-day heat-treat process that involved temperatures up to 1200°F and pressures up to 1×10^{-4} Torr.

Dayton has also recently upgraded its 48" diameter vacuum furnace with state-of-the-art temperature processors to achieve control within +/-25°F. The improvements will provide for quicker furnace cycles.



The world's largest commercial top-loading vacuum furnace at our processing facility in Dayton, Ohio.

***Making
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Fall 2004 Issue 19

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The Corner Office

By W.P. Clark
Chairman & CEO
wpclark@wallcolmonoy.com

This past summer, we lost one of the early pioneers of the Alloy Products Division of Wall Colmonoy. Charles S. Ghastin, age 78, succumbed to cancer at his home near Pittsburgh, on July 31.

Charley began his sales career with us in 1957, working from the New York sales office. From sales engineer to district manager, to national sales manager, Charley had a successful and dedicated 37 years with Wall Colmonoy, before retiring in 1994.

Charley was a personal and professional friend, as well as a mentor to many of us. Always with a quip or anecdote full of humor and life lessons, Charley was the consummate raconteur. I once asked him about the origin of his humorous tales. His reply, "I find my lessons in *Reader's Digest*."

With his trademark ear-to-ear smile and gracious nature, Charley made fast friends wherever his travels took him. Whether on the road in the U.S. or conducting thermal spray workshops around the globe, Charley overcame cultural differences and language barriers with a healthy dose of warmth, wit and compassion.

We took many trips together. One of the more memorable was a visit to one of our glass industry customers, Cisper, in the city of Manaus, on the Amazon in Brazil.

Cisper, a glass container mould manufacturer had asked us to train their folks in the coating of mould components with Colmonoy® alloys. After a successful week of training, Cisper treated us to a boat tour through the Amazon. During an on-land excursion through the jungle, Charley tripped on a vine and suffered a sprained ankle.

Back at the boat, first aid was performed by a medical person who began rubbing leaves on Charley's sore ankle. Charley winked at me and said, "Do you think this will work?" I surmised that apparently no other remedy was available, but I hastened to say, "Don't eat anything the doc gives you!"

The next day, back in the U.S., Charley visited a hospital in his hometown. While he was relating his Amazon experience to a nurse, she abruptly jumped up and excused herself, saying she had to bring in a specialist. The "specialist" turned out to be a team of psychiatric doctors and nurses who wanted to hear Charley's remarkable story. He enjoyed a good chuckle over their amusement.

In the early 90's, we developed the Colmonoy 200-Series Alloys for coating the seams of glass container moulds. Along with product enhancements, the extensive customer training provided by Charley helped make the product launch a success in the U.S.

Although this new generation of glass-mould alloys was a success in the U.S. market, the products were initially rejected in Europe. To help jumpstart sales, our European Managing Director suggested that Charley visit the shops with the local sales force. One of the people most resistant to the new alloys was our French sales manager.

With his wit and persistence, Charley soon demonstrated the features and benefits of the products to our French sales manager. The two of them then set out to conquer the resistance in the local mould shops. They were ultimately successful, and today the Colmonoy 200-Series is the number-one product in the European glass-mould industry.

Charley was a kind, moral and humble fellow. Another story I recall was the Sunday we went to mass in a small church on the Amazon. After mass, many of the workers from the Cisper mould department were there and, although we had no interpreter, they all wanted to shake our hands and see that big, beautiful smile of Charley's.

During his retirement years, Charley played a valued role in his community. As an active church member, Charley had been a lector, parish council member and chairman of the parish blood drive. He was also a Eucharistic minister, visiting and taking Communion to sick and housebound parishioners.

He is survived by his wife of 57 years, Sophie; three daughters, MaryAnn Johns, Patricia Rosenfield, and Cathleen Acosta; a son, Charles S. Ghastin Jr.; and 12 grandchildren and two great-grandchildren.

Charley was a pioneer for the hard surfacing and brazing industry. He contributed to the history and success of Wall Colmonoy. I often reflect upon our time together and the many contributions made by this great man.



Charles S. Ghastin 1926-2004

Cutting-Edge Equipment Improves OKC's Production Efficiency

Wall Colmonoy Oklahoma City recently acquired several new pieces of state-of-the-art CNC equipment thereby upgrading existing work cells to meet demands for greater operational speed and efficiency.

New equipment includes:

- Automatic Tube Cutoff Saw
- Longitudinal Tube Seam Welder
- Sheet Metal Shear



*Shop Technician, **Brian Shomo**, prepares to use the new sheet metal shear. This machine handles material as large as 10' long and 1/4" thick.*

OKC's 40" H₂V furnace has been upgraded with an innovative heating and insulation system, enabling it to hold temperatures within +/- 5°F. The furnace is now also fully programmable.

General Manager, **John Sturch**, said, "Our production team is very pleased with the new equipment. The machines are easier to use and reduce waste, helping us move closer to our Lean Manufacturing goals."

UK Quality Receives Clean Bill of Health

ISO 9001:2000

Wall Colmonoy Ltd. (WCL) passed its six-month ISO 9001:2000 quality assurance assessment in August. According to Quality Manager **Mark Phillips**, our Wales manufacturing facility "passed with flying colors. No nonconformances were reported!"

Performed by the British Standards Institute, the assessment included all aspects of the business, from sales inquiries to shipping. The review particularly praised WCL's Continuous Improvement Program and delivery performance.

WCL transitioned to ISO 9001:2000 in July 2003. Prior to this, the facility held ISO 9002:1994, the forerunner accreditation, since 1988.

San Antonio Ramps Up for POWER-GEN

Now in its seventeenth year, POWER-GEN International is the largest gathering of power generation professionals in the world. Wall Colmonoy San Antonio will join over 1,200 exhibitors and more than 20,000 attendees expected for this year's event.

Stop by Booth 5238 for a discussion of the advantages of braze repair techniques for ground power engines.

Compared to weld repairs performed by other repair shops, Wall Colmonoy's braze repairs are cleaner, faster and last longer. We utilize vacuum furnace brazing techniques, drawing on over 40 years of experience repairing hot-section engine components for the aerospace industry. San Antonio General Manager, **John Husko**, and Customer Service Representative, **Jeannette Charles**, will be on hand to field your questions.

Bert Breer, Northeast Sales Manager for the Products Group, will also be available to discuss Colmonoy® wear-resistant coatings for extending the service life of boiler tubes and other critical components used in the power generation industry.

See you in Orlando!



*November 30–December 2, 2004
Orange County Convention Center
Orlando, Florida
Booth 5238*

Safety Focus Pays Off in Los Lunas

Plant Safety personnel, **Rich Snair** and **Lisa Gavi**, were pleased to report that the Los Lunas Alloy Foundry had no “lost

time accidents” for the period July 2003 to July 2004.

“The fact that our General Manager, **Daniel Nazzarett**, is very supportive of our safety and training programs makes it easier for us to be effective in assuring a safe workplace,” said Snair. In fact we’ve gone as long as four years without any lost-time accidents,” added Snair.

According to a recent survey conducted by Liberty Mutual, effective workplace safety programs share common elements, including:

- Management commitment
- Employee training
- Internal communication
- Direct employee participation and accountability
- Regular program review and maintenance

In addition to preventing employee pain and suffering, the major benefits of an effective workplace safety program include lower medical and insurance costs, better morale, and higher productivity.

Congratulations to *all* Los Lunas employees! Your team efforts at workplace safety are an inspiration to Wall Colmonoy facilities worldwide.

Students Gain “Real World” Experience in Oklahoma City

Teryn Bray is pursuing a master’s degree in industrial engineering from the University of Oklahoma. Expected to graduate in May 2005, she has been instrumental in helping OKC implement Lean Manufacturing concepts and streamline the plant’s processes.

Julie Buratti is working in OKC’s sales department while pursuing a bachelor’s in business administration from the University of Oklahoma. She plans to attend law school after graduation.

On track to graduate with a bachelor’s degree from Mid-America Christian University in May 2005, **Leslie Adams** helps OKC’s quality department with administrative responsibilities.

“This is a win-win situation,” said General Manager **John Sturch**. “The co-ops help us reach our goals while they gain valuable experience to enhance their studies and careers.”

Wall Colmonoy Top Supplier to Keystone Helicopter

Wall Colmonoy is proud to be recognized as one of Keystone Helicopter’s top eight suppliers. As an Authorized Repair Facility for Rolls-Royce Model 250 engine components, we’ve earned a reputation for delivering quality service with fast turnaround times and exceptional value. Our repair and overhaul services span the entire range of turbine nozzles and combustors, providing the aerospace industry with a one-stop shop for these highly technical repairs.

Call John Husko at 210-924-5061 for more info. FAA Repair Station DR2R778K.



Final Inspection



Finished Part Ready for Shipment

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The August issue of “The Manufacturer Magazine” featured an article on Keystone Helicopter of West Chester, Pa. accompanied by the above advertisement from Wall Colmonoy San Antonio.

Keystone is one of the largest and oldest helicopter service companies in the nation. Wall Colmonoy was recently named as one of Keystone’s top eight suppliers.

Oklahoma City Welcomes New Production Manager

Kyle Wyatt joined our Oklahoma City (OKC) production team in July. As the new Production Manager, Wyatt brings a diverse background in manufacturing operations and project engineering to Wall Colmonoy.

OKC manufactures and overhauls aircraft exhaust systems and heat exchangers. The facility recently made a significant investment in positioning machinery, equipment and utilities into seven U-shaped manufacturing cells. Wyatt will use his substantial experience in work cell technology and Lean Manufacturing methods to help build on these investments. “We will continue to streamline our production processes and create a more organized and safer working environment,” said Wyatt.

Prior to joining Wall Colmonoy, Wyatt was project manager for Autocraft Industries in Oklahoma City, and before that, a manufacturing engineer with Stanley Mechanics Tools, Wichita Falls, Texas.

Originally from Wichita Falls, Wyatt has a bachelor’s in manufacturing engineering technology from Midwestern State University. He and wife Courtney have a four-year-old son, Kyler, and a baby girl due in November. Wyatt’s interests include rebuilding classic cars, building kit cars and camping.



Well-versed in Lean Manufacturing, OKC’s new Production Manager, Kyle Wyatt, champions Wall Colmonoy’s commitment to Lean Manufacturing principles and practices.

Littlewood Awarded Five-Year Pin & Promotion

Not long after earning his five-year service award in August, **Geno Littlewood** of our San Antonio facility was promoted to Plant Supervisor in October. “Geno has proven his abilities during the last year as Senior Lead for the division,” said General Manager John Husko. Congratulations to Geno for his dedicated service and a job well done!

International Technology Exchange in Pontardawe

Last June, representatives from our U.S. manufacturing facility in Los Lunas, N.M., visited our Wales operation to exchange alloy manufacturing and quality technology for the mutual benefit of both facilities. U.S. General Manager, **Daniel Nazzarett**, and Manufacturing Process Engineer, **Michael Weinstein**, met with Wales plant personnel during the five-day visit.

“The exchange is expected to increase productivity in Los Lunas, as well as increase production capability in Pontardawe,” said Weinstein. “We exchanged designs that were at the heart of our atomizing technology. These are the devices and systems used to convert raw materials into our Colmonoy® and Nicrobraz® alloy powders.” Nazzarett added, “We also shared ideas for new product development and examined matrices for measuring performance.”

The international forum discussed all aspects of foundry management, including hiring and training, production, specifications, purchasing, health and safety; also sales and customer service concerns. Wales participants included **Laurence Griffiths** – Operations Manager Foundry Products (powder, rod and brazing aids); **Paul Corry** – Powder Supervisor; **Mark Phillips** – Quality Manager; **Peter Walter** – Brazing Consultant; and **Thomas Weber** – General Sales Manager.

“We were very impressed with all facets of Wall Colmonoy Ltd.’s operation, especially their employees,” said Nazzarett. “The hospitality shown by the Welsh folk was beyond compare,” added Weinstein. “We welcome the opportunity to host a future technology exchange in Los Lunas!”

Factory Expansion Underway at European Headquarters

Wall Colmonoy Ltd. broke ground in August on an extensive 20,000-square-foot expansion of its factory in Pontardawe, Wales. The additional space will accommodate more equipment to meet increasing demands on alloy powder and castings manufacture, as well as the machine shop. Slated for completion February 2005, the expansion will increase our European headquarters to 70,000 square feet.

According to Managing Director **Norman Allnatt**: “The expansion will not only improve factory layout and workflow, it will allow for future investments in manufacturing capabilities. Although this is a substantial expansion,” said Allnatt, “the construction plans were designed to minimize disruption in production. Our customers will continue to receive the same timely delivery they’ve come to expect from Wall Colmonoy.”

Dayton Welcomes Back

Wall Colmonoy Dayton was pleased to welcome back **Connie Gravitt** to its staff in August. As Customer Service Representative, Gravitt follows up on quotations and keeps customers informed on the status of their orders. She is also responsible for all accounts receivable functions.

During her 10 years away from Wall Colmonoy, Connie was an elementary school librarian, which allowed her more time at home with her children when they were young.

Although she’ll miss having her summers off, Gravitt said she was ready for the challenge: “I’m glad to be back at Wall Colmonoy. It’s been fun reconnecting with our customers and catching up with all the WCC people.”

WCC Takes the Metal Out of Coca-Cola

San Antonio’s hydrogen furnace has seen a lot of action in the past year processing 20,000 to 30,000 valve plugs a month for a San Antonio-based manufacturer of beverage dispensing systems. And the numbers are expected to increase in the near future.

Used in fountain drink dispensers distributed around the world, valve plugs control the water and syrup dispensed into the soda cup. During the manufacturing process, however, the valve plugs take on residues from the machining operation. These residues cause beverages to have a metallic taste. San Antonio’s hydrogen cleaning process removes the residue, effectively eliminating the acrid taste.

Only a half-inch in diameter, the valve plugs are processed thousands at a time in San Antonio’s hydrogen furnace. The process takes 11 hours to complete, and not only removes the offending residue, but also restores the parts’ magnetic properties, ensuring the dispensed beverages flow smoothly.

**Coca-Cola is a registered trademark of The Coca-Cola Company.*



Valve plugs used in fountain drink dispensers undergo an 11-hour hydrogen cleaning process at San Antonio.

Los Lunas Takes a Picnic Break

Chairman's Son Follows in His Father's Footsteps



2nd Lt. Nicholas Wall Clark with parents Bill & Peggy at his October graduation from the U.S. Marine Corps six month Platoon Cammander School at Quantico, VA. Lt. Clark has orders to 2nd Marine Air Wing, Cherry Point, N.C. as an air intelligence officer.

UK's Williams Retires After 20 Years



David Williams (center) receives a gift of appreciation upon his retirement in September for 20 years of service in WCL's machine shop. Presenting Williams with his gift are (left) Ken Hunter, Machine Shop Team Leader, and (right) John Hinton, Operations Manager Castings Machining & Processing.

On a beautiful Saturday this past September, our manufacturing team in Los Lunas enjoyed a day of food and fun with fellow employees and their families during the facility's annual picnic. About 90 picnic goers took part in a variety of activities for "kids" of all ages.

"Our team gives 110 percent all year long," said Plant Manager **Daniel Nazzarett**. "This day of camaraderie and family fun with their co-workers is one of the ways we show our appreciation for their hard work. Having Bill Clark (CEO) and his wife Peggy join us for the event made it even more special."

Many thanks to Administrative Office Coordinator Antoinette Graves for organizing this year's event.



Darrian, son of Ball Mill Operator Silas Graves and Office Coordinator Antoinette Graves, admires his Spidey face as "Giggles" the face-painting clown creates a mask on his mother.



Silas Graves holds the piñata as Derek, son of Furnace Operator Manuel Duran, winds up for another crack at the treats hidden inside the Spider-Man piñata.



Plant Manager Daniel Nazzarett hands out eggs as picnic goers line up to see who can toss the fragile fare the farthest to their partner without scrambling it!

New Arrivals

Baby girl Mia born on June 28 to Tina Webber (Sales, UK) and husband Mark.

Lloyd Owen Born on June 22 to Steve Jenkins (Inspection, UK) and wife Sara.



Congratulations to Leon Rivera (LL) and his wife on their new son Devin Isaiah, born July 6, at 5 lb, 2 oz.

Timoteo David Rackley

Oklahoma City's Quality Control Manager, **Rick Rackley**, and wife Becky welcomed a new son to their household in May. Two-year-old Timoteo David, nicknamed Teo (pronounced tA-O), was adopted from a Guatemalan orphanage, where he had been living since abandoned in August 2003. The Rackleys report that Teo is adjusting remarkably well to his new environment, while his sisters, Jessica, 15, and Hali, 11, enjoy fawning over their new brother.



Congratulations to the Rackley family. Looks like your little guy is already a Sooner Football fan!

New Hires

Los Lunas	Oklahoma City
Stephanie Aragon	Jason Brink
Paul Baca	John Bryant
Manuel Duran	Saul Erives
Ricardo Duran	Jeff Frazier
Eddie Gonzalez	Doug Knighten
Thomas Griego	Billy Miles
Stacey Menchaca	Phat Nguyen
David Padilla	Jason Park
Leon Rivera	Cuong Vo
Richard Torrez	Duane Wallace

Madison Heights	Dayton
Amit Jain	Teresa Brineger
Botros Soliman	Connie Gravitt
Daniel Vincent	

In Appreciation for Your Service

Fall 2004 Service Awards

25 Years
Maggie Prickett - MH

20 Years
Mark Phillips - WCL
Lousie Madge - WCL
Ken Hunter - WCL
Peter Simpson - WCL
Barbara Faremouth - MH
Melecio Barela - LL

15 Years
Robert Pfouts Jr. - DAY
Kenneth Keesling - LL
Maria Vieira - WCT

10 Years
Lorra Hart - OKC
Barbara McCree - MH
Jeffrey Davies - WCL
Ian Miles - WCL
Ceri Tickner - WCL

5 Years
Keith Knight - OKC
Kathleen Tomison - MH



Left to Right: Mark Phillips, Peter Simpson, Ken Hunter, and Louise Madge (WCL), 20 years of service



Bill Clark, CEO, presents Melecio Barela (Purchasing, Los Lunas) with his 20-year service award.



Barbara Faremouth, (Customer Service, MH), 20 years of service.



Maggie Prickett, (Accounting, MH), 25 years of service.

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