

THE AVIATOR

QUARTERLY
NEWSLETTER

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INTRODUCING CAVU | 2

TEMPERATURE SOLUTIONS

ATI: Case Study | 3

Microtek: Facts about PCM | 3

Customer Spotlight: Michelman | 4

COMPANY NEWS

Community Corner | 5

25 Year Anniversaries | 6

Company Values | 6



CAVU
G R O U P

CAVU-GROUP.COM

microtek
laboratories, Inc.

 **american
thermal
instruments**

 **microtemp
labs**


HVO
HIDDEN VALLEY
ORCHARDS


GREENE
COUNTRY CLUB
Event Center


HI SPIRITS
ESTABLISHED IN 1982


TAVERN
AT THE Greene

CAVU Group Takes Flight

WHO WE ARE

Don't worry, we're still the same group of quality companies you've worked hand-in-hand with, we've just done a little refresh to our parent company name.

When working on our rebrand, it was important to highlight our roots as a strong, Dayton-based company with a name that reflects the entrepreneurial spirit of our city's great inventors in aviation. CAVU is an acronym used in aviation that stands for Ceiling and Visibility Unrestricted or ideal flying conditions. With ideal conditions, we are unrestricted on the collaborative and innovative possibilities that impact our customer's everyday lives.



OUR PURPOSE

We are a collection of businesses that enrich the lives of our employees, families and communities through sustained profitability, environmental stewardship and safe practices while exceeding our customer's expectations.

OUR BRANDS

CAVU Group brands can be separated into two areas of focus: temperature solutions and lifestyle hospitality.

TEMPERATURE SOLUTIONS



The CAVU Group manufactures integrated solutions that combine both thermal management and temperature monitoring to allow for universal visibility and unlimited control of temperature. We revolutionize the way the world approaches temperature by providing innovative technologies to increase customer satisfaction, brand protection and consumer safety.

LIFESTYLE HOSPITALITY



The Lifestyle Hospitality Brands of CAVU Group have a focus on providing the perfect platform for unique corporate and social events. Our lifestyle hospitality brands provide a platform for new traditions, in and around our community. From formal to social events, our venues can deliver a unique and customized experience for up to 250 guests. Our customer service is unmatched and we welcome you to come take a look inside.

The sky is the limit when our efforts are directed at innovation, direct customer experiences and community outreach.



FACTS ABOUT PCM

Temperature Managing | microtek Laboratories

Can phase change materials (PCM) be a valuable part of a thermal management solution? These facts can help you answer that question and determine what PCM might be right for you.

PCMs can be explained to anyone!

Really, they can! Phase change materials are substances that absorb and release thermal energy (heat) during the process of melting and freezing. They are called “phase change” materials because they go from a solid to a liquid state during the thermal cycling process.

PCMs can be encapsulated or unencapsulated.

PCMs are generally available in three forms: unencapsulated raw PCM, microencapsulated PCM and macroencapsulated PCM. The difference between the two encapsulated options is the size of the particle.

Encapsulation provides strength to a PCM.

Encapsulation of a PCM adds an outer shell to the PCM core to prevent leakage, degradation and contamination. For a good visual, we often describe it as the candy shell around the chocolate center of an M&M!

The uses for PCMs are endless!

Building materials, clothing, mattresses, pillows, and electronics are just a few examples of where PCMs are used. We are always working on projects for new and creative uses of PCMs in all kinds of industries.

The benefits of PCMs are endless as well!

PCMs provide many advantages when incorporated into products. They include energy savings, a better night's sleep, cooling and heating relief in remote locations without access to electricity, and better performing electronics.

PCMs activate at different temperatures.

PCMs are available with a variety of different melt points. Differential scanning calorimetry (DSC) is a thermoanalytical technique used to determine the peak melting points and latent heat values of PCMs. This data is very important when deciding how to incorporate PCMs into products. Cool touch fabrics need to activate at human body temperature, or around 37c. Cooling an electronic product may need to activate at a much higher temperature, such as 58c or more.

Assuring Medical Patient Health with ATI Temperature Labels

Temperature Monitoring | ATI

Ensure that a prosthesis used in lumbar spine surgery is not exposed to temperatures exceeding 60°C from the time it leaves the manufacturing facility until it is used in the operating room.

STRATEGY

The manufacturer chose ATI high temperature ascending (HTA) labels to prevent high temperature damage to its prosthesis product during transit and storage. A white viewing window on the HTA labels will permanently turn red if the temperature exceeds 60°C.

IMPLEMENTATION

The HTA labels are placed on each product carton at the manufacturing facility. At every transfer point – from the warehouse or distribution center to the medical facility to the operating room – personnel easily verify that the high temperature limit has not been exceeded.

RESULTS

Surgeons who use the prosthesis are assured that the viability of the product has not been compromised by excessive temperatures. The labels also highlight the quality assurance commitment of the manufacturer, further enhancing consumer confidence.

WHERE WE'RE HEADED NEXT...

CPhI North America Booth #1522
April, 30- May, 2 – Chicago, IL

DHL Global Life Sciences & Healthcare Conference
June, 17-19 – Miami, FL

Michelman, Global Manufacturer of Aqueous Coatings, Uses Blindspotz Labels to Enhance the Customer Experience

Customer Spotlight | American Thermal Instruments

Michelman, headquartered in Cincinnati, OH, is a global developer and manufacturer of environmentally friendly aqueous coatings. Their innovative surface additives and polymeric binders are used around the world to enhance performance and add value in various applications including wood and floor care, industrial coatings and digital press primers.



UNACTIVATED



ACTIVATED

Michelman prides themselves on service beyond expectation. Over ten years ago, they discovered that their aqueous coatings could be affected by freezing temperatures. “During our Winter shipping period, which is November 1st through March 31st, we need to track the product being shipped to customers to ensure it’s not exposed to freezing temperatures,” Timothy Baker, QA Specialist at Michelman stated. “The coating’s quality could be affected if it’s exposed beyond the temperature listed in the storage and handling section on the product label,” added Baker. Michelman used a number of freeze indicators leading up to ATI’s Blindspotz solution, but the ease-of-use and interpretability have made it the ideal solution to move forward with.

American Thermal’s Blindspotz solution is simply a label with unique, thermochromic ink technology, that turns from clear to blue at freezing temperatures. The ink can be printed flexo, gravure or offset, so the customization for graphics and size are endless. The technology can be added to a standard label or purchased as stock labels from ATI. The label size chosen

by Michelman fits perfectly on their current product labels, so the secondary label was the best option for them.

“We want to guarantee we are providing a product our customers have confidence in. We provide each customer with information on how to interpret the freeze indicators. Fortunately, the ease of the white to blue color change is a simple and obvious thing to notice when reviewing the product. Since this product is flexible and doesn’t have 3-dimensional pieces like the past product we were using, they adhere to the box and don’t have the opportunity to get knocked off during shipment,” said Baker.

Twenty percent of temperature-sensitive products are damaged during transport due to a broken supply chain. The Blindspotz product has the ability to be set for any temperature threshold between 4° and -4°C with a ±1°C accuracy rating. Blindspotz protects your brand and enhances customer satisfaction, as product can be monitored throughout the supply chain to the end customer. When temperature matters, let ATI assist you in the right solution for your application.

CAVU Group Takes on Techfest

Community Corner | CAVU Group

Techfest is a free two-day family event held annually at the Downtown Campus of Sinclair Community College. The theme of TechFest is STEM, which stands for Science, Technology, Engineering and Math. This year the event was held on February 16-17 and there were approximately 70 hands-on exhibits for children to interact with. The exhibits ranged from building a gumdrop structure, re-shaping Nitinol to see it return to its original shape and how electricity can stream through multiple people to turn on a lightbulb. There were also over 30 unique presentations given by local employees, showcasing various scientific topics. This year 780 volunteers gave over 3700 hours of their time to make TechFest a highly successful event. Volunteers came from colleges, universities, professional societies, and other technology and science-related organizations.

Our company, the CAVU Group, is made up of American Thermal Instruments and Microtek Laboratories. Our team of volunteers, approximately 20 employees, ventured out to Techfest to showcase our temperature monitoring and thermal management solutions. The group put together different table activities educating the children on energy and how it corresponds with temperature. There was a “magic” color changing mat, highlighting our liquid crystal technology that turned from black to blue from the heat of their hand. Our Technology Team put together circuit boards with an electronic thermistor that turned a light bulb on through the energy put-off by their fingertips. PCM- coated foam could be touched on both sides to display the “feeling of cool”. Lastly, the children could apply a re-usable forehead thermometer to take their own temperature. They were able to take these thermometers home with them to use over and over again.

Our very own Senior Scientist Manager, Colleen Costello, gave a presentation on both Saturday and Sunday called Living in a Material World. The kids and their parents were educated on the exciting world of materials including – metals, plastics, nanos, phase change and more. Colleen has been a part of Techfest for the last 7 years and coordinated the exhibit for our team. “TechFest has always been a chance for me to



Employee Eric Thiry demonstrates the “magic” color changing mat.

marry my love for children and teaching with my love for science, technology, engineering, and math. This year it was very special to share the experience with my colleagues at CAVU Group since I knew our exciting technologies would be intriguing for students and that my colleagues would enjoy the infectious fun of the event. We had a blast as a team participating and the expressions on the students’ faces told me that they really enjoyed our hands-on, interactive exhibit as well,” Costello stated.

The CAVU Group volunteers at a number of community events each year through their Venture Club. This year, the Venture Club has plans to spend time at the Community Food Bank, take part in Shoes 4 the Shoeless, work on a local Moraine home and compete against a number of Dayton area companies in Battle of the Businesses this Summer, the top charity event for Dayton’s Special Olympics.

25 YEARS OF DEDICATION

Employee Anniversaries | CAVU Group



The newest 25 Year Charter Club Members, Jerry Griffin and Randall Lane, were recognized in a small luncheon on February 26, 2019. Pictures were shown to display the changes and growth throughout the company, locations, technology and people. Spanning from the beginning in 1981 with only American Thermal Instruments, it's amazing to think about all of the added brands that now roll up into the newly established CAVU Group.

Jerry Griffin started in ATI Production on April 8, 1993. Jerry worked for American Thermometer for 8 years prior to joining the team and has worked with his wife, Vikki, ever since. Funny stories were shared about Jerry and his love for collecting cars, shoes and clothes. If you saw the picture of his bell bottoms, he was surely stylish and still is! Jerry was recognized with a CAVU jacket and a silver bracelet. Thank you Jerry for working so hard over the years!

Randall Lane was hired on December 12, 1993. The week Randy started, Marvin decided to go on vacation and leave Randy at the helm of the ship. It was stated that, "Randy showed up one day to help Marvin and never left!" Vikki and Tim shared some funny stories about Randy and his ability to always keep things interesting! Pictures of Randy displayed his 4 loves – fishing, sports, traveling (to weird places) and family. Randy was honored with 2 rocks glasses and a gift card to plan a trip on the Bourbon trail. A big thanks to Randy for all he's invested into this company and the employees.

Four other 25 Year Charter Club Members joined the honorees for lunch including Marvin Kidd, Vic Uttinger, Terry Pierson and Vikki Griffin. The room was filled with tears, love and a lot of laughter.

COMPANY VALUES

What We Value | CAVU GROUP

At CAVU Group, our company values are our driving force. We've crafted ten beautiful statements that bring our purpose to life. Our purpose is to enrich the lives of our employees, families and communities through sustained profitability, environmental stewardship, and safe practices while exceeding our customers' expectation.

We're highlighting two of our values this month and sharing how they impact our company. This month focusing on our employees and our customers.



Our employees are our most important asset.

As a small, but mighty company, our employees become more than just colleagues. They become family and friends. Our employees success is our success, it is important to us to invest in them and grow them. We know the value of work-life balance and at CAVU Group we encourage our team to embrace that balance. Whether in the office or with their families, we truly care about our employees and support them as they are a part of our family.



Our customers are at the heart of the organization.

We are customer-focused, meaning we are here to collaborate, create and innovate the way our customers do business. We strive to provide the best products and service to our customers and push ourselves to exceed their expectations.



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