Delivering innovative, customized, full lifecycle solutions.

We make the world safer and more productive.

ANNUAL REPORT  July 1, 2022 – June 30, 2023
Building Sustained Growth
ON THE COVER

While we’ve generated many valuable solutions for our clients over the past several decades, some of our proudest moments include supporting our warfighters.

Current work includes producing large friction stir weldments for the U.S. Navy’s next-generation patrol boats, deploying game-changing edge node computing solutions to those on the front lines, ensuring readiness within the DoD community by improving their safety and occupational health, and supporting our military clients’ goals to safeguard their missions in a sustainable manner.

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DEAR FRIENDS and COLLEAGUES,

Another successful year—in terms of both financial achievements and technical accomplishments in support of our clients. This year’s performance continues our strong growth over the past several years. At the heart of our successes are our people; they consistently go above and beyond to address our clients’ toughest challenges with innovative and actionable solutions. In Fiscal Year 2023, we hired 56 employees, and we anticipate adding another 65 during fiscal year 2024.

Technical highlights this year: CTC’s unique capabilities in friction stir welding large structures are being used to fabricate the Navy’s next-generation patrol boats; CTC’s innovations in small caliber ammunition are providing evolutionary improvements to defeat emerging threats, reducing ammunition weight to improve warfighter effectiveness, and lowering ammunition manufacturing costs; our Information Technology division is working on significant research and development with a new contract ceiling of $200 million; our deep mission understanding and expertise in safety and occupational health is being applied through a large DoD contract to reduce mishaps, injury, and occupational illness; and CTC continues its role as a partner with the Marine Corps and Air Force in addressing energy, resilience, and sustainability to improve force readiness.

This year we made organizational changes to better align capabilities to client needs, further enhancing opportunities. We have created a new division focused on providing innovative solutions to complex energy security and climate resiliency issues. This Energy, Resilience, and Sustainability division is being led by Executive Director Susan Van Scoyoc. Three other leaders were promoted to Vice President, reflecting on their outstanding achievements—Bob Kubler in Readiness Solutions, Tim Tibbits in Engineering and Manufacturing, and John Klein as the CFO and Treasurer. Jacque Brown was promoted to Manager, Business Development
STRATEGIC FOCUS AREAS—BUILDING SUSTAINED GROWTH

There's a lot to celebrate at Concurrent Technologies Corporation (CTC) and Enterprise Ventures Corporation (EVC). Both organizations recently won large contract awards across our technical capability areas, which has led to a significant number of new hires and internal promotions. At the heart of our success and growth is our employees’ commitment to solving our clients’ challenges with innovative solutions—from research and development through implementation—applying relentless, high-level performance.

To stay on our positive path, we took a close look at where we are allocating our resources. This year, we’re increasing our investment in technology development to create new capabilities for our clients. Specifically, CTC is investing in these strategic focus areas: artificial intelligence/machine learning, cybersecurity, and digital engineering. EVC’s strategic focus areas include new specialized aircraft maintenance tools and specialized coatings.

CTC’s emphasis is on the front end of the product/service lifecycle—mainly research and development—while EVC primarily works to transition products to the marketplace. Collaboration between CTC and EVC is resulting in growth for both organizations.

Operations, and several staff members were promoted to lead new line organizations that were created to manage our growth. These advancements were made from within the organization, which reflects on our emphasis on leadership development and succession planning.

We have prioritized new investment in capabilities we can offer our clients to assist them in achieving their missions. New strategic focus areas include digital engineering, which leverages our expertise in both engineering and information technology, artificial intelligence/machine learning, and cybersecurity solutions development. We are excited that these investments will result in new capabilities with experienced practitioners that will enhance and extend our current technical and programmatic offerings.

Enterprise Ventures Corporation allows us to provide a full lifecycle approach through continuous collaboration from research and development through implementation for mission application, sustainment, and disposition.

We are committed to the environment on behalf of our employees, clients, and communities. A recent CTC Environmental, Social & Governance (ESG) Report highlights our specific efforts to advance sustainability, social responsibility, and ethical and effective corporate governance. Please find our ESG Report on ctc.com’s Ethics and Corporate Responsibility page.

We offer sincere thanks to everyone who has contributed to our success. We appreciate and acknowledge the commitment of our Board of Directors, Technical Advisory Board, organizational leadership teams, staff members and their families, clients, and partners. The power of our team working together is impressive!

Thank you.
HONOR ROLL
Join us in honoring our colleagues who were on active or reserve military duty during fiscal year 2023.

Thank you for your continued service to our nation.

BOARD OF DIRECTORS

We are grateful for our distinguished board members who help us advance our technical capabilities and drive our strategic business decisions.

The Honorable Jeffrey K. Harris Chair
Dawn R. Ellenberger
Gary C. Slack

Dale M. Mosier Vice Chair
Linda R. Thomson
Camille M. Nichols

Edward J. Sheehan, Jr. President & CEO
Daniel T. Perkins

Sean P. Roche

Joseph Yakovac

The Honorable Jeffrey K. Harris Chair
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Camille M. Nichols

Edward J. Sheehan, Jr. President & CEO
Daniel T. Perkins

Sean P. Roche

Joseph Yakovac

Joshua Brown
Kevin Hillegas
Lynn Wagner
Matthew Criado
Erick Jensen
Derric Wiltshire
Bryan Groves
Sidney Johnston
James Wilson

Thank you for your continued service to our nation.
We continue to advance our key technology areas in engineering and manufacturing, and we are making greater investments in areas newer to CTC, including digital engineering. We are growing in numbers and technologies to meet the needs of our DoD clients and our partners with whom we collaborate. In this section, you’ll learn about our work to benefit the Army, Navy, Air Force, and Marines with innovations that span advanced welding, groundbreaking ammunition design, engineering methods that improve energy efficiency, a new approach to extract valuable rare earth elements, and more.

Providing Advanced Welding for Specific Needs

CTC is uniquely capable of friction stir welding very large aluminum structures and is proud to partner with SAFE Boats International to produce large friction stir weldments for the U.S. Navy’s Mark VI ship hulls. The Mark VI patrol boats are designed and built to serve as the next-generation patrol boats for the U.S. Navy.

CTC’s expertise in advanced welding is also valuable for the nuclear industry, which must adhere to strict quality requirements that translate into significant manufacturing time and costs. To address that issue, CTC and Precision Custom Components (PCC), through the Center for Advanced Nuclear Manufacturing (CANM), are teaming to execute an automation project to enhance quality and fabrication efficiency of large, thick weldments.

The solution leverages Collaborative Robot (Cobot) technology that is modified for this application, enabling a $1.2 million savings due to reduced weld time and rework. The innovative Cobot upgrades developed by CANM and PCC have allowed skilled welders to focus on more complex projects, leading to a quick uptick in efficiency, greater profits, higher employee satisfaction, and improved flexibility. This project was financed by a grant from the Commonwealth of Pennsylvania, Department of Community and Economic Development.
Improving Ammunition Design with Unique Solutions

CTC is honored to continue its work with small caliber ammunition for the U.S. Army under a contract worth up to $25 million. We are developing innovative and cost-effective engineering and design solutions for new or existing small caliber ammunition systems.

In the course of our work with the Army, CTC was awarded two patents for “Shell case design utilizing metal injection molding.” These patents detail the invention of a single-piece, high-strength metallic cartridge case that is stronger, stiffer, and lighter than traditional brass. The revolutionary new design is a joint development between CTC and the U.S. Army to improve warfighter effectiveness through increased lethality, improved accuracy, and reduced ammunition weight. This advanced technology reduces warfighters’ combat load and increases their mobility and lethality.

Addressing Aluminum Sensitization on Navy Ships

CTC has supported the U.S. Navy in addressing issues with aluminum sensitization since 2010 and has supported the development and implementation of several devices to combat this issue. CTC hosted a demonstration of the Laser Surface Modification (LSM) process for sensitization treatment of aluminum alloy ship structures. The event was conducted as part of a project involving the University of Virginia, Luna Labs USA, and the Naval Surface Warfare Center Carderock Division (NSWCCD). The demonstration was designed to determine the ability of a commercial laser to reduce sensitization of 5456 aluminum alloy on a mockup of a ship hull.

Using a patented method, CTC led a team to develop a Reverse Sensitization Unit, which is being used to restore aluminum decks on several Navy ships. It’s a low-cost solution to restore damaged material without the need to remove or replace the affected structure.

If the technology solution to extract rare earth elements from spent coal resources is proven to be feasible, the entire nation could benefit.

Developing a Promising Source of Rare Earth Elements

Through a Pennsylvania state grant, CTC is working to prove the feasibility of applying a high-temperature technology to extract rare earth elements (REEs) from coal-based sources. REEs are critical to the production of national defense weapons systems, electronics, advanced motors, power generation equipment, automobiles, and more. This technology, if successful in this application, could lead to the development of a domestic supply chain of REEs and create quality jobs in Pennsylvania.

Enabling Energy Efficiency Through Engineering

Through the years, CTC has played a significant role in the Air Force’s efforts to improve energy efficiency. In one project, CTC is supporting the Air Force’s journey from a diesel-powered flightline to an electric one. CTC is designing, building, and testing a second prototype electric flightline generator capable of powering legacy and 5th generation fighter aircraft. The contract for the Air Force Research Laboratory’s (AFRL’s) Future Force Energy and Power office builds on CTC’s previous successful battery and hybrid generator prototypes and aims to provide a replacement for existing diesel-powered generators from the Vietnam War era. This new prototype will leverage the current design and add increased performance capability.

Another current AFRL project expands on our established resiliency methodologies, applying a new set of requirements and incorporating new technology solutions. CTC is developing direct current (DC) microgrid technology to enhance energy resilience at Kirtland Air Force Base. The technology solution will result in energy savings when connected to the utility grid and provide resilient power when utility power is lost. This project will field a first-of-its-kind system within the Department of the Air Force, providing immediate benefits to the host site while documenting opportunities to expand the technology.
Advancing Additive Manufacturing Applications

CTC is also working with AFRL on a project that’s building the world’s largest additive manufacturing (AM) machine. The project intends to overcome the limits of current AM (3D) equipment to build larger components for critical defense applications. The technical work we are performing for this project includes elements of CTC’s full-service portfolio of AM capabilities, including design, testing, post processing, machining, and qualification.

Supporting Improved Marine Ground System

For the U.S. Marine Corps, CTC is researching the Next Generation Medium Tactical Truck. CTC is the prime contractor working with Mack Defense, BAE Systems, and MSI Defense to perform technology surveys, conduct technology trades, conduct performance analysis, and deliver conceptual Computer-Aided Design (CAD) models to the Office of Naval Research. The Marine Corps is considering a possible replacement for the currently fielded Medium Tactical Vehicle Replacement (MTVR), a ground transport logistics vehicle that the Marine Corps considers its “workhorse.” Anticipated capabilities of the new vehicle include a smaller and lighter platform, hybrid electric drive, an open systems architecture for future upgrades, and more.
INFORMATION TECHNOLOGY

CTC stays ahead of the latest technology advancements so we can help solve our clients’ toughest challenges. We are honored to be a trusted provider of cutting-edge, effective solutions to clients throughout the DoD, Intelligence Community, and beyond. Among our accomplishments this year is a research and development award valued at $60 million on one of our company’s largest contracts. This latest award pushes the contract ceiling to over $200 million. Our expertise is having an impact on a variety of initiatives, as highlighted in this section of the Annual Report.

Leveraging AI and ML for Good

The increasing prevalence of Artificial Intelligence (AI) and Machine Learning (ML) generates many questions, including whether the technology will eliminate the need for workers. But the opposite is more likely true—that the workforce will be enabled to do more of what they’re already doing. And they will be better equipped than ever to make decisions based on better and more input.

As a refresher, AI involves a machine completing a complex human task efficiently. ML is a specific kind of AI that analyzes large volumes of data to identify patterns and produce a result. CTC has a deep history and knowledge of ML and keeps pace with the rapidly changing market to evaluate and integrate developments into commercial ML tools and our own COMBINE™ big data microservices architecture platform.

CTC plays a crucial role in assisting the DoD and Intelligence Community to analyze data by developing algorithms that can detect malware attacks. CTC created AI/ML applications to detect malware by feeding both malware and non-malware codes into an algorithm, then quizzed the system to see if it’s able to detect them. CTC also interprets data and algorithms so its clients get a clear understanding of what threats they may face and what courses of action will best address the threats. We’re able to let our clients know, by a percentage, how confident they can be that something is malware or not.
Designing the Most Effective Edge Node and Cloud Architectures

One of CTC’s differentiators is its ability to develop customized solutions that are best for our clients. We deploy edge node and cloud architectures where they benefit the end users the most. For the DoD and Intelligence Community, we have deployed game-changing edge node solutions that bring current geospatial intelligence data, applications, and services to coalition forces much quicker and with less bandwidth than traditional means. In the past, those on the front lines needed to reach back to data centers in the U.S. for activities such as finding helicopter landing zones, conducting surveillance, locating targets, assessing damage, etc. Our edge node systems provide our military with the tools necessary to analyze and exploit intelligence and plan and execute operations faster than ever before.

We are also working on enabling sensors on satellites and other equipment to provide intelligence in greater detail and more quickly to military personnel on the ground. A system developed for the U.S. Army Space and Missile Defense Command is designed to use small satellites to fill the deep sensing and targeting gap. All of CTC’s innovative multi-cloud and hybrid-cloud solutions with edge compatibility ensure a security-first approach to cloud solutions for each client.

Elevating Organizations’ Cybersecurity Posture

Like AI/ML, cybersecurity is a hot IT topic, and it is relevant to any person or business who uses the internet. Digital attacks to individual and organizational systems can be devastating. CTC is a trusted and nationally recognized provider of advanced cyber solutions; our team offers strategic level planning assistance, cyber training capabilities, assessment services, and incident response planning capabilities.

As a DoD contractor ourselves, CTC is uniquely poised to help other organizations achieve Cybersecurity Maturity Model Certification (CMMC), which will soon be required for all companies in the DoD supply chain. CTC offers an objective view of organizations’ preparedness, identifies gaps in security practices, provides a test prior to the formal readiness assessment, and schedules a consultation with a certified CMMC Assessor. Pennsylvania businesses can access free, state grant-funded help from CTC.

CTC also helps organizations protect themselves against malicious inbound documents through cross domain solutions that identify and block dangerous content in attachments, performing white-list checking that protects from unknown threats.

CTC also applied AI/ML technology during the COVID-19 pandemic to create an algorithm that helps health care providers decide whether a patient on a ventilator will survive if they are intubated. The depersonalized patient data used in this application can be applied to specific geographic or demographic areas to provide more insight into medical care decision making.

Ensuring Security in IT Solutions

To ensure security in all our IT software and infrastructure solutions, CTC uses the DevSecOps model.

To ensure security in all of our IT software and infrastructure solutions, CTC uses the development, security, and operations (DevSecOps) model. DevSecOps integrates security at every phase of the software development lifecycle, addressing issues as they emerge rather than at the end of the process, saving time and resources. Our DevSecOps software developers are experts at mitigating threats, neutralizing malware, and identifying bad actors attempting to disrupt critical systems.
REACHINESS SOLUTIONS

In a rapidly changing world, preparedness is the key to readiness, and CTC stands committed to helping clients navigate the dynamic challenges ahead. Our comprehensive solutions encompass cutting-edge readiness strategies, innovative training programs, and in-depth analysis and decision support tools. Whether it’s improving safety and occupational health, emergency response accountability support, or ensuring the continuity of vital operations, our team is dedicated to elevating clients’ readiness posture to new heights and fortifying our nation’s strength and resilience for a safer and better-prepared future.

Implementing Safety and Occupational Health Solutions

For nearly two decades, CTC has developed and implemented exceptional Safety and Occupational Health Management Systems for clients and stakeholders. Our experts follow national and international standards such as OSHA’s Voluntary Protection Programs (VPP), ISO 45001, and others. CTC helps clients and stakeholders operate safe and healthy workplaces with safety and occupational health (SOH) training, industrial hygiene services, and SOH regulatory compliance assessment and assistance.

CTC was recently awarded a $75.5 million contract to provide management, analytical, and technical support for a comprehensive SOH program for the Under Secretary of Defense for Personnel and Readiness, Force Safety and Occupational Health. CTC is providing expertise to support the reduction of mishaps, injury, and occupational illness risk, enabling an enduring safety culture and improving readiness across the DoD.

CTC operates the DoD Safety Management Center of Excellence (SMCX), providing technical support to 650+ DoD sites.

CAPABILITIES

Safety & Occupational Health Services
Advanced Learning Solutions
Identity, Credential & Access Management (ICAM)
Logistics Policy & Analysis Services
Technology-Based Readiness Solutions
Another recent accomplishment of the DoD Safety Management Center of Excellence (SMCX), operated by CTC, was the complex and successful migration of the electronic Safety Management System (e-SMS) Tool suite from an internal environment into a DoD Defense Information Systems Agency (DISA)-accredited, Common Access Card (CAC)-enabled hosting environment. In 2011, CTC began hosting, operating, and maintaining the e-SMS Tool, which provides several hundred DoD sites and many thousands of users with a web-based framework and system to track the progress of implementing and sustaining various safety and occupational health management systems.

Applying Advanced Learning Solutions for Defense and Security Entities

CTC’s innovative training tools, technologies, processes, and subject matter experts are at the forefront of preparing an operationally ready military workforce. Building on a history of technology leadership and industry firsts, CTC applies advanced technology to address defense and security customers’ training needs. Our technical experts are on the leading edge of digital solutions, leveraging advancements in artificial intelligence/machine learning, cloud computing, immersive environments, adaptive learning, and much more.

Helping Validate Personnel During Emergencies

In an emergency or large planned event, it’s critical to keep an accurate account of responders—who they are and where they are. CTC provides Identity, Credential, and Access Management (ICAM) products and solutions that comply with federal ICAM requirements and help our clients accomplish their mission.

More than a dozen of CTC’s FERO ATS mobile validation devices were used during the Hawaii wildfire crisis in 2023 to keep track of responders arriving from outside the state who needed hotel lodging. (U.S. Department of Homeland Security photo)

CTC’s mobile electronic credential validation system, Federal Emergency Response Official (FERO) Accountability Tracking System (ATS) has been in use since the U.S. presidential inauguration in January 2017. The FERO ATS offers operations managers and incident scene commanders the ability to verify the identities and capabilities of personnel on-site, providing efficient and reliable management of resources. Since 2017, CTC’s system has been used during natural disasters and COVID-19 response for the FEMA Personnel Mobility Center.

Improving Enterprise Operations Through Logistics and Program Management Expertise

CTC’s logistics and program management support help military clients stay mission ready. We provide support to manage worldwide logistics and systems programs for government clients, helping them develop, oversee, analyze, and improve their enterprise operations at a competitive cost.

CTC has developed a Marine Corps expeditionary logistics information system, built DoD’s diminishing manufacturer tracking system, provided Air Force and Joint Depot Logistics analysis and reporting, and applied enterprise metrics to guide sustainment decisions.

Keeping the Nation and Warfighters Mission Ready

Our clients depend on CTC’s reliable, relevant technology-based readiness solutions. The U.S. military, homeland security community, and government organizations use CTC’s technology-based readiness solutions to ensure force readiness, time-sensitive reporting systems, continuity of operations, and disaster response planning and preparedness.

When warfighters are called on a mission, they need to be ready. CTC provides a variety of technologies and services that ensure they are available and prepared. Army soldiers are pictured conducting an emergency deployment readiness exercise. (DoD photo)
Tackling critical energy, resilience, and sustainability issues requires innovation, expertise, and diligence. CTC applies those attributes and more for our military clients who need assurance that they will be able to fulfill their missions. These activities are so important, that CTC created a new division to address them—separating our ongoing energy, resilience, and sustainability work from CTC’s other readiness operations. Through the years, we have become a valued and trusted sustainability resource for our clients; we now have a renewed emphasis to help them execute their missions in a sustainable way. Below are highlights of some recent accomplishments.

Marine Corps Installation Energy Projects Receive Millions in Funding

CTC continues to assist our Marine Corps Installations Command (MCICOM) clients with installation energy expertise. Specifically, we are helping them navigate the process and produce successful project packages including the following energy resilience and utilities infrastructure modernization initiatives:

- ERCIP
- Utility Energy Service Contract (UESC)

Among our accomplishments, between FY20 and FY24, the Office of the Secretary of Defense selected six United States Marine Corps (USMC) projects for ERCIP funding, totaling nearly $85 million, providing additional investment in USMC infrastructure. Following this success and leveraging our Installation Energy Security Plan analysis, CTC supported the development of nearly $400 million in projects for the FY25 program year request.
Achieving Resilience for USMC Installations

In our newest USMC endeavor, CTC worked with MCICOM to create an approach for an Energy Resilience Team that would bring together the Marine Corps mission community with the public works community. The intent behind this team is to leverage the key data and analysis from both communities for justifying and prioritizing infrastructure investments to achieve resiliency.

CTC has been awarded a new subcontract providing expertise in energy resilience planning and project development support to USMC installations. The Energy Resilience Team will establish an overall Energy Resiliency Program Guide, developing Installation Resilience Roadmaps (IRRs), incorporating data from relevant documents, and developing customized energy projects aligned with installation-specific IRRs.

Air Force Microreactor Pilot Could Have Far-reaching Benefits

Next-generation small nuclear reactors, known as microreactors, offer promising, innovative energy technology with the potential to bolster resilience and increase carbon-free energy generation at Department of the Air Force (DAF) installations and beyond. The Assistant Secretary of the Air Force for Energy, Installations, and Environment has emphasized the microreactor pilot is one of his main strategic priorities.

CTC is contributing to a project that will pilot a next-generation nuclear power reactor at Eielson Air Force Base in Alaska. This microreactor pilot could lead to the use of reliable, safe, carbon pollution-free power production at other DoD installations. (U.S. Air Force photo)

Aiding the Air Force in Comprehensive Climate Planning

Beyond the microreactor pilot, CTC was instrumental in developing three significant pieces of DAF climate policy and plans.

First, our clients led the way on many actions included in the Secretary of the Air Force’s Climate Action Plan released in October 2022. Our CTC team supporting the Deputy Assistant Secretary of the Air Force for Environment, Safety, and Infrastructure (SAF/IEE) is playing a large role in accomplishing ambitious operational goals and work toward federal emissions reduction targets.

Second, CTC had a significant role in shaping the SAF/IEE’s approach to the DAF Climate Campaign Plan (the implementation plan for the DAF Climate Action Plan) as well as the DAF’s approach to executing the DAF Climate Action Plan.

Third, our team developed and received approval on the “Clean, Agile, Secure, Efficient” (CASE) Framework, which will help drive DAF decision-making to be more climate informed. We took this activity from scratch to completion in one year. We are now working with execution partners to ensure they integrate the framework into decision-making, project development, and investment prioritization schemes.

CTC has played an instrumental role in supporting the DAF to achieve key milestones in the microreactor pilot at Eielson Air Force Base in Alaska, the site chosen for the pilot due to its arctic climate and critical mission requirement. CTC assisted the government leads in all phases of the request for proposal and related activities, including participating in the evaluation and selection of developer proposals.

In addition to reducing greenhouse gas emissions, microreactors are particularly beneficial for remote U.S. military installations that are critical to national security since the energy it needs is produced independent of the commercial grid and its potential disruptions due to natural or terroristic threats.

CTC has renewed its emphasis to help our military clients execute their missions through advanced energy, resilience, and sustainability initiatives.
It was another good year for EVC. In FY23, we were able to significantly exceed the CTC Enterprise’s overarching goal of five percent growth, and we were able to position ourselves for continued progress. Our funded backlog is at an all-time high, and we anticipate additional increases in that area well into FY24. In addition, our team has grown by 10 employees to support the new and planned activities.

The year was highlighted by the largest contract in EVC’s 10-year history. The $18 million, three-year award covers the manufacture of spare parts for the Carriage, Stream, Tow, and Recovery System (CSTRS). Details on this work and its benefits to the Navy and our company are featured in the following pages.

Beyond CSTRS, we are diversifying our portfolio of products in our manufacturing and sustainment division. Our success in selling EVC’s aviation maintenance tooling has led us to evaluate alternative aviation platforms and tools. In addition, one of our collaborative efforts with CTC may soon be used by the Department of Homeland Security with potential higher volume production across multiple government agencies at the federal and state level.

We had another successful year selling our software cross domain product, Advanced Guard for Information Security (AGIS). While the future of this product is not certain, we continue to develop plans to pivot as necessary to monetize the investments we have made. Additionally, within the software group we have been presented with and are vetting new opportunities for technology transition.

While our unique blend of valuable products is enabling EVC’s growth, our skilled and dedicated employees ultimately make this success possible. During this past year EVC won a PA Best Places to Work award based largely on assessments submitted by our workforce. EVC is a truly great place to work—and it’s all due to the efforts, energy, character, and drive of our employees! We offer our sincere thanks and appreciation to every EVC employee. Similarly, we thank our CTC colleagues, our numerous clients, our growing list of partners and suppliers, our board of directors, and all others who have contributed to our success.

Edward D. Peretin
President
Enterprise Ventures Corporation
EVC is investing in diversifying our portfolio of products beyond CSTRS. Building on our success in selling our aviation maintenance products, including the Bridge Tool Deluxe Kit and Quick Skive Removal Tools, EVC is evaluating alternate aviation platforms and tool offerings. Our manufacturing capabilities related to complex electro-mechanical systems is giving us the opportunity to team with a partner to manufacture a product that will be utilized by the Department of Homeland Security. This opportunity may lead to higher volume production across multiple government agencies—both at the federal and state level.

**Advanced Specialty Coatings Benefit U.S. Military**

EVC’s specialty coatings are being used by a growing number of military clients, and more developments are underway. The coatings offer an array of significant benefits, including increased survivability and lethality, extreme durability, and affordability.

EVC has developed and manufactures specialty CARC topcoat systems qualified to MIL-DTL-64159C, Specification for Camouflage Coating, Water Dispersible Chemical Agent Resistant, specifically CARC-L (Low Solar Absorbing CARC), and CARC-E (TALON™ Coating System).

EVC also develops custom specialty coatings and colors to meet customer needs, including CARC-based performance and non-performing coatings, flexible coatings, and tire coatings.

**EVC Board of Directors**

EVC’s H-60 Bridge Tool Deluxe Kit incorporates process improvements over conventional methods for the removal and installation of components, returning aircraft to mission readiness faster at a reduced cost.

These are the qualified colors for CARC-E/CARC-L.

EVC has manufactured CSTRS winch systems for the U.S. Navy since 2006 and is currently manufacturing nine CSTRS winch systems. In addition to the benefits that CSTRS brings to our Navy client, this latest contract has a positive impact on our company. It allows EVC to restart volume production work with many of the suppliers who worked with EVC during the original production run. It also enables us to invest in our workforce, with many of the 10 new employees supporting this contract. Further, it fosters the growth of our relationship with the Navy sustainment community as we look ahead to the next 10 to 15 years of sustaining the CSTRS gear.

**Manufacturing and Sustainment Division Growing Substantially**

EVC won the largest contract award in its 10-year history—an $18 million Naval Supply Systems Command (NAVSUP) contract that will allow EVC to continue to support the sustainment of the Carriage, Stream, Tow and Recovery System (CSTRS), for which EVC is the original equipment manufacturer. CSTRS is a launch and handling system that enables rapid response to mine threats, providing an extra measure of safety for crew and ships during shallow water missions. Over the next three years, EVC is manufacturing nine CSTRS winch systems.

While our unique blend of valuable products is enabling EVC’s growth, our skilled and dedicated employees ultimately make this success possible.
COLLABORATING FOR SUCCESS

CTC’s and EVC’s unique partnership benefits clients by providing a full lifecycle of solutions. While CTC primarily provides technology research, development, test, and evaluation (RDT&E), EVC specializes in production and commercialization—transferring technologies developed by CTC and others to the marketplace. Our individual areas of expertise combine to create comprehensive solutions, and our close association allows us to easily collaborate throughout the process.

Since CTC formed EVC as its technology transfer affiliate in 2000, our companies have worked together to create and transfer valuable products that are being used to help bring to life our shared goal to make the world safer and more productive. A few highlighted programs include the U.S. Navy’s Carriage, Stream, Tow, and Recovery (CSTRS) system; a collection of specialized aircraft maintenance tools used by military personnel; and specialty coatings being implemented on U.S. Army ground vehicles. These programs and more illustrate the benefits of our cooperative relationship.

EVC President Ed Peretin addresses the crowd at a December 2022 press conference announcing the award of an $18 million contract for EVC to manufacture spare parts for the CSTRS mine countermeasure system. CTC developed CSTRS more than 20 years ago, and EVC has provided production and sustainment support in the years since.
Sharing Our Expertise

CTC’s Lynn Porta contributed to multiple sessions in a major international event designed to tackle the global water crisis and ensure a water-secure future. Approximately 10,000 people attended the UN 2023 Water Conference at the UN Headquarters in New York City. Porta participated in two high-level roundtable side events as a guest speaker and expert.

Porta attended UN 2023 Water Conference as a representative of her work at the intersections of long-term resilience and readiness policy with water resources security. Outside of CTC, Porta volunteers as the Co-President of the North American Youth Parliament for Water and brought the long-term planning perspective of a young professional to her participation in multiple side events and official sessions of the conference.

CTC Principal Materials Scientist and Program Manager Rob Mason authored a book on deposition and application of thin films, which is beneficial to engineers, scientists, and technical personnel who are looking for an introduction to these technologies. The short book, Introduction to Thin Film Deposition Techniques: Key Topics in Materials Science and Engineering, is published through ASM International.

RECOGNIZED LEADERS IN OUR FIELDS

Our team members are in demand at industry gatherings. Our experts are invited to speak, participate as panelists, and exhibit at events that bring together attendees who can benefit from our deep knowledge and experience in manufacturing and engineering; information technology; readiness solutions; and energy, resilience, and sustainability.

CTC leaders were instrumental in a new session at the 2023 Showcase for Commerce. Senior Directors Dave Saranchak (shown) and Greg Jablunovsky moderated two of the Government Acquisition Leaders Panel Discussions.

Energy and Climate Analyst Lynn Porta participated in the 2023 United Nations Water Conference and the previous Stakeholder and Preparatory Meetings for the conference in New York City.
Sharing Our Expertise

Senior Director, Manufacturing, Ken Sabo (second from left) participated in a panel discussion on Leveraging Additive Manufacturing for Hypersonics at the 4th Annual Hypersonic Weapons Summit in Arlington, Virginia.

Senior Director, Advanced Engineering and Manufacturing, Mike Pollock shared CTC’s friction stir welding expertise at an online AIM Higher Consortium event, where speakers present topics relevant to the defense industry supply chain.

CTC Principal Safety Professional Richard “Paul” Savage spoke at the Region X Voluntary Protection Programs Participants Association (VPPPA) Northwest Safety & Health Summit in Washington state. His presentation was designed to help participants improve their organizations’ safety management systems.

Strengthening our Partnerships at Industry Events

Each year, CTC is heavily involved in Showcase for Commerce in Johnstown, PA. Shown are Senior Director, Advanced Engineering and Manufacturing, Mike Pollock (left) and Project Manager Dave Moyer (right) discussing work on the U.S. Air Force Aircraft Power and Light Cart with Justin K. McFarlin, Deputy Assistant Secretary of Defense for Industrial Base Development & International Engagement.

Senior Director, Manufacturing, Ken Sabo (second from left) participated in a panel discussion on Leveraging Additive Manufacturing for Hypersonics at the 4th Annual Hypersonic Weapons Summit in Arlington, Virginia.

CTC was well represented at the Department of Energy’s 2022 Energy Exchange in Cincinnati, OH. Staff participated as technical planning team members, session moderators, and service-specific training session developers.

CTC sponsored and exhibited at the Pittsburgh Technology Council’s 2023 Cybrary Initiative. Chief Information Security Officer/Chief Information Officer Scott Zimmerman was among the staff who participated.

EVC team members discussed the company’s products and services at the 2023 Army Aviation Association of America Summit (Quad A) in Nashville, TN.
SHINING OUR LIGHT

Our company is fortunate in many respects. We are humbled by the recognition we have earned for our varied successes, and we applaud our employees’ generosity in sharing their good fortune with those in need.

Recognizing Excellence

CTC President and CEO Ed Sheehan, CTC Executive Vice President and COO George Appley, and EVC President Ed Peretin were named to the 2023 Pennsylvania Business Central’s Top 100 People list. And both CTC and EVC were named to the Pennsylvania Business Central’s 2023 Top 100 Organizations list.

We are proud of our staff members and leadership team who have driven strong, sustainable growth over the past few years. Because of their hard work, we have promoted several employees to drive our continued success and guide us on new opportunities. John Klein was promoted to Vice President and will continue in his role as Chief Financial Officer and Treasurer. Also promoted were Bob Kubler, Vice President, Readiness division; and Tim Tibbits, Vice President, Engineering division. Susan Van Scyoc advanced to Executive Director of our newest technology division, Energy, Resilience, and Sustainability, while Kevin Pudliner, who was promoted earlier this fiscal year to Executive Director, continues to lead the Information Technology division.
CTC and EVC were named to the 2022 Best Places to Work in PA list by Central Penn Business Journal and the Best Companies Group. CTC was ranked 25th in the large company category, and EVC placed 17th in the small company category.

For the seventh straight year, CTC was named a Top Veteran-Friendly Company in 2023 by U.S. Veterans Magazine.

For the 11th year, CTC was recognized as a Best for Vets Employer by Military Times. CTC is one of only six Pennsylvania-based organizations on the 2022 list.

CTC was honored to earn the 2023 Cambria Regional Chamber’s Innovation Award, which recognizes organizations that develop advanced or innovative technologies, products, or services to meet the needs of their customers.

CTC was named a 2023 Top Prototype Engineering Services Provider by Manufacturing Technology Insights magazine. Principal Mechanical Engineer Shawn Rhodes and Director, Mechanical Design and Analysis, Lori Denault were featured in the publication along with our company recognition.

CTC and EVC representatives attended the Best Places to Work in PA ceremony in Lancaster, PA. CTC was ranked 25th in the large company category, and EVC placed 17th in the small company category.

For the first time, CTC won industry honors for its social media activity. The company’s ongoing Facebook Work Anniversary Campaign earned Honorable Mention in the 2023 Hermes Creative Awards competition. The Facebook campaign recognizes long-term employment milestones. The posts are designed to honor veteran employees and illustrate CTC’s low attrition rate, a discriminator for the company as it competes with other, often larger, organizations for skilled professionals.

Supporting Those in Need

CTC and its employees donated to DTGruelle, one of the few groups that support small towns in a dangerous area of Ukraine, where flooding caused a dam to collapse.

Through DTGruelle, our employees donated money and the company matched those funds to help provide aid in war-damaged Ukraine. The donations were used to buy fuel for transporting aid and fresh food to families affected by flooding in an area that is also within firing range of Russian troops.

As always, our employees were generous during the December holiday season, contributing to the United Way, Toys for Tots, a local women’s shelter, the Salvation Army, a local food pantry, and more.

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Several employees have made it a family tradition to ring the bell at one of the familiar Salvation Army red kettles.

Our CTC/EVC FY22 Annual Report won three separate marketing communications awards. It earned a Platinum Hermes Creative Award, a Platinum MarCom Award, and a Gold Service Industry Advertising Award. Collectively, CTC Annual Reports have won marketing communications awards for the past 17 consecutive years. In addition, the CTC-produced U.S. Army Medical Command Sustainability Report won a 2022 MarCom Gold Award.

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Supporting Those in Need

CTC and its employees donated to DTGruelle, one of the few groups that support small towns in a dangerous area of the Ukraine, where flooding caused a dam to collapse.

Through DTGruelle, the humanitarian arm of the integrated logistics provider DTGruelle, our employees donated money and the company matched those funds to help provide aid in war-damaged Ukraine. The donations were used to buy fuel for transporting aid and fresh food to families affected by flooding in an area that is also within firing range of Russian troops.

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A team of employees had a great time while raising money at the 35th Easterseals Western and Central Pennsylvania “Office Olympix.”

The company supports many employees who participate in the Cambria Regional Chamber’s annual leadership program, which requires participant teams to execute a project that helps the community. This year CTC supported an employee’s team that created a pavilion at a local trail.

One of our employee couples, Kevin and Carol Pudliner, spend a good part of their summer volunteering at an organization that helps local abused and neglected kids. The Run Home Camps organization began in the Johnstown, PA, area and provides at-risk children an opportunity to experience acceptance, a loving family environment, and friendship.

CTC’s Kevin Pudliner is a baseball coach at Run Home Camps for children in need, and his wife, Carol (also a CTC employee), helps with registration and other activities.

A group of Forest Hills High School students visited EVC and CTC to learn about careers that use the type of knowledge they are gaining in AP Physics and Calculus classes. Scott Kenner, Senior Director, Engineering, is shown talking with the students about the company’s work with the Air Force’s Flightline of the Future.

Each year, our Johnstown office hosts a Household Hazardous Waste (HHW) collection event, which is organized by the Pennsylvania Resources Council in collaboration with the Cambria County Solid Waste Authority. It provides residents a way to dispose of HHW in a safe, environmentally friendly manner.

Supporting Each Other
Recognizing the value of regularly gathering to strengthen our team, as well as to unwind together, the company holds a variety of group events.

We celebrated our 35th anniversary with gatherings at each of the company office locations. In addition to the events, CTC donated $3,500 to the Community Foundation for the Alleghenies to show its appreciation to the Johnstown region and to provide additional resources for the community’s continued growth and development.

A May Mixer was held at our Johnstown headquarters, where employees enjoyed each other’s company with food, drinks, and live music.

In addition to the traditional shared meal, our May Mixer included an ax throwing activity, with employees cheering each other on.

C TC and EVC annually celebrate Employee Appreciation Day by providing treats for its valued employees.

In a company program we call “Technology: Behind the Scenes,” student interns Anthony Walters and David Truscello presented what they learned at CTC to company leaders.
VISION
Concurrent Technologies Corporation, inclusive of its technology transition affiliate, Enterprise Ventures Corporation, is recognized as one of the top developers of comprehensive solutions that make the world safer and more productive.

MISSION
To offer robust, technical, and innovative solutions that:
- Safeguard our national security
- Retain U.S. technological advantage
- Ensure the primacy of American manufacturing

VALUES
- Passionate
- Humble and respectful
- Relentless
- Not profit motivated
- Treat people like family
Concurrent Technologies Corporation (CTC) is an independent, nonprofit, applied scientific research and development professional services organization. CTC collaborates with its technology transition affiliate, Enterprise Ventures Corporation, to leverage research, development, test and evaluation work to provide transformative, full lifecycle solutions. To best serve our clients’ needs, we offer the complete ability to fully design, develop, test, prototype and build. We deliver robust, technical, and innovative solutions that safeguard our national security, retain U.S. technological advantage, and ensure the primacy of American manufacturing.

CTC’s quality management systems are certified to the ISO 9001:2015 (Quality) and ISO14001:2015 (Environmental) standards, and to AS9100D:2016 (Quality-Aerospace-Related Products).

EVC’s quality management system is certified to the ISO 9001:2015 (Quality) and AS9100D:2016 (Quality-Aerospace-Related Products). EVC supports CTC’s Environmental Management System.

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