

July 1, 2020 – June 30, 2021



ANNUAL REPORT



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Cover

The photos on the front cover represent our broad areas of expertise: Advanced Engineering & Manufacturing, Readiness, and Information Technology. Current work in those areas includes technology for hypersonic applications; edge node systems; specialized coatings; innovative ammunition engineering services, manufacturing analysis, and prototype development and scale-up; cybersecurity; and much more.



Dear Colleagues and Friends,

Concurrent Technologies Corporation (CTC) and its affiliates Enterprise Ventures Corporation (EVC) and the CTC Foundation demonstrated unwavering mission and client commitment during the ongoing public health crisis. We are pleased to report the Company completed a successful year, achieving almost every Performance Scorecard goal. We want to acknowledge and thank our employees and business partners who contributed to this success. Our organization's clients adapted processes and policies to improve effectiveness and efficiency, and we are grateful for their ongoing confidence and trust in our Company, employees, and teammates.

During our Fiscal Year 2021, the CTC enterprise continued to develop innovative solutions that resulted in follow-on engagements and new contract awards. Examples include the award of a contract to design and build an electric flightline generator capable of powering legacy and next generation USAF aircraft; EVC's orders of a CTC-developed, proprietary specialty military coating; and an \$11 million award to develop and evaluate improved small caliber ammunition for the U.S. Army. We remain focused on advancing our capabilities in areas including hypersonic technologies, artificial intelligence/machine learning, and secure classified manufacturing. With increased focus on the importance of the environment, our teams providing installation readiness analysis and services are elevating this critical component of our national security. These efforts help to improve secure and resilient critical infrastructure—the assets, systems, and networks that underpin our nation's military platforms.

We acknowledge the valuable guidance that our Technical Advisory Board provides in mentoring our technical leadership and supporting the Company's strategic plan.

Our Board of Directors continues to provide strategic guidance to the Corporation's leadership to drive the organization's growth and progress. With much gratitude and appreciation, we recognize the service of two long-time



The Honorable
Jeffrey K. Harris
Chair
CTC Board of Directors



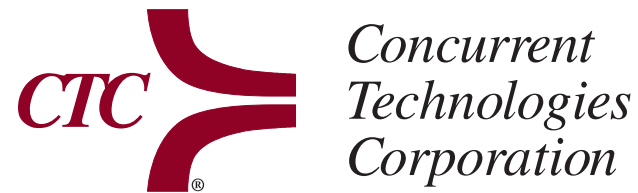
Edward J. Sheehan, Jr.
President & CEO &
Board of Directors

board members who completed their service, Chairperson and board member, Mr. Howard (Skip) M. Picking, III, and Mr. Mark Pasquerilla. They made numerous contributions over their years of service, and we are indebted to them. We also welcome our new board members, Mr. Sean Roche and Mr. Gary Slack. We are also pleased with the election of two board members at our affiliate and technology transition partner EVC, the Honorable Kevin Fahey and Mr. John Tile.

We live in exciting times with the ready availability of technologies that can be quickly incorporated to provide our clients with mission performance advantages. Our dedicated, skilled employees' relentless pursuit of innovative and timely solutions is a strength of the Corporation. Their service to strengthen our National Security is remarkable. We remain excited about our ability to offer technology-infused solutions to address hard problems. We look forward to going above and beyond by leading the innovations which will advance our contributions to National Security to help make our world safer and more productive.

We again offer our thanks and appreciation to our employees, clients, board of directors, and the many business partners and friends who have contributed to our success.

J.K.H. Edward J. Sheehan, Jr.



Vision

Concurrent Technologies Corporation, inclusive of its affiliates, 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

Culture

The employees of Concurrent Technologies Corporation and its affiliates work as a team to serve our clients within our One Company Company framework while living our brand and values.

CTC Board of Directors



The Honorable
Jeffrey K. Harris
Chair



Dale M. Mosier
Vice Chair



Edward J. Sheehan, Jr.
President & CEO



Robert J. Eyer, CPA
Director



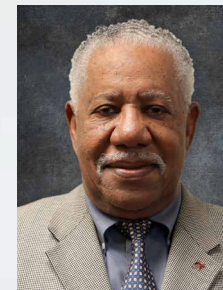
E. Jeanne Gleason
Director



Retired
U.S. Air Force Col.
Conway B. Jones, Jr.
Director



Retired
U.S. Army Maj. Gen.
Camille M. Nichols
Director



Retired
U.S. Air Force Maj. Gen.
John F. Phillips
Director



Sean P. Roche
Director



Gary C. Slack
Director

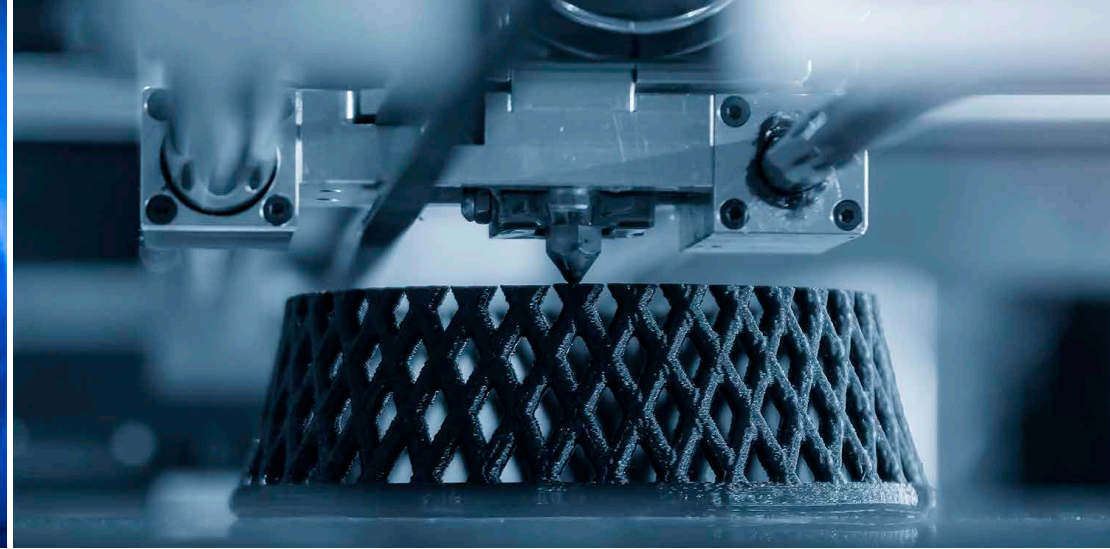


Retired U.S. Army Lt. Gen.
Joseph Yakovac
Director

Technical Advisory Board

The CTC Technical Advisory Board members bring a wealth of experience and expertise in various technical, government, and industry arenas. They are, left to right, The Honorable Jeffrey K. Harris; Nickolas H. Guertin; Anthony J. Tether, Ph.D., Chair; Arthur J. Bruckheim, Ph.D.; and Stanley A. Sojka, Ph.D.





ENGINEERING & MANUFACTURING

Building on decades of engineering and manufacturing advancements, CTC delivers innovative solutions that combine deep expertise in both the fundamentals and cutting-edge technologies. CTC and its affiliate technology transition partner, Enterprise Ventures Corporation (EVC), work closely to create a seamless process from concept development to prototyping to production, sustainment, and disposition.

Patented Solution Taking Joining Technology to Where It is Needed

CTC is developing a unique and innovative solution for repair and construction of U.S. Navy ships. While friction stir welding (FSW) is ideally suited for repair of cracks in 5xxx series aluminum, no commercially available FSW systems can be used shipboard or in situ to perform weld repairs.



Friction stir welding is ideally suited for welding highly sensitized material as found in several classes of U.S. Navy ships. Until CTC developed its portable friction stir welder, no friction stir welders could perform weld repair shipboard because they were large, heavy, stationary systems.

Capabilities

- Engineering Design, Development and Prototyping
- Friction Stir Welding/Advanced Joining
- Additive Manufacturing
- Secure Manufacturing
- Systems Engineering, Design and Integration
- Custom Fabrication
- Next Generation Ammunition
- Mechanical Design and Analysis
- Mechanical Testing and Materials Characterization

CTC's patented portable friction stir welder (PFSW) and process parameters are designed to replace sensitized and cracked material during ship repair, dramatically reducing labor and material costs associated with the current repair techniques and ultimately increasing Navy fleet readiness by improving maintenance schedules. In addition, this technology can be used during new construction (for example, in deck socket installation, hull erection joints, and panel joining). CTC's patented solution consists of a track, a weld head powered by pneumatic motors, and an air caddy containing the motor controls.



On the USS Vicksburg (CG 69), CTC used a portable friction stir welder similar to the one pictured, which was developed under contract to the Office of Naval Research as part of the Future Naval Capabilities Program.

Innovative Repair Technologies Deployed on Navy Ship

Techniques and technologies led by CTC are being used to reduce costs and improve readiness for U.S. Navy ships that use aluminum alloys for hulls and superstructures. CTC's solution allows repairs to sensitized aluminum in place, saving the costly and time-consuming removal and replacement process.

In early 2021, the U.S. Navy repaired a hole in the bulkhead on the USS Vicksburg (CG 69) using a portable friction stir welder to weld an insert into sensitized aluminum. CTC also worked with a partner, ElectraWatch, to treat the surrounding area with another CTC-developed technology, reverse sensitization. Their work builds on prior activities at CTC involving PFSW, reverse sensitization, coatings, and other technologies.

Additive Manufacturing Solutions: Rapidly Move from Concept and Design to Manufactured Product

CTC offers a broad range of additive manufacturing (or 3D printing) services to provide our clients with both complex part manufacturing and the ability to repair

worn or damaged high-cost components. CTC uses three additive processes: laser powder bed fusion, hybrid additive manufacturing, and high pressure cold spray.

Manufacturing Outlook

named CTC a Top 10 Additive Manufacturing (AM) Solution Provider for 2020 and featured CTC's AM capabilities in the August 2020 cover story.



Enhancing Next Generation Ammunition through Industry-leading Engineering Innovations

CTC is providing component and manufacturing process engineering, analysis, prototyping, and testing services for new small caliber projectiles, cases, and components. Our work will help enhance performance, reliability, and affordability, as well as reduce weight of small caliber ammunition. These efforts are part of a three-year, competitively bid contract awarded by the U.S. Army Project Manager Maneuver Ammunition Systems (PM MAS) and U.S. Army Combat Capabilities Development Command Armaments Center (CCDC AC) through the DoD Ordnance Technology Consortium (DOTC). Through long-term engagements, CTC is developing industry-leading engineering solutions for small caliber ammunition spanning research and development, testing, technology transition, and implementation.

The National Armaments Consortium and DOTC recognized CTC for Outstanding Technical Achievement for its innovative approach to manufacturing ammunition that simplifies the process, reduces total ownership cost and manufacturing footprint, increases performance, and reduces weight.



CTC is developing prototype next generation ammunition incorporating advanced manufacturing technologies for the U.S. Army.



CTC is building on its previous generator prototypes that were successfully demonstrated at Edwards Air Force Base with the 412 Test Wing.

Developing the Next Generation Flightline Generator

CTC is supporting the U.S. Air Force with its goal to replace diesel-powered generators with an electric generator by combining silicon carbide-based power electronics with advanced lithium-ion battery technology. These advanced techniques will be used to design and build an electric flightline generator capable of powering legacy and 5th generation fighter aircraft. The work is being done on a contract from the Air Force Research Laboratory's Advanced Power Technology Office.

Even though the prototype will resemble a traditional flightline generator, it will demonstrate superior power quality and efficiency while reducing flightline emissions and noise.

Contributing to Advancing Nuclear Industry Manufacturing

CTC's Center for Advanced Nuclear Manufacturing (CANM) continues to develop its presence and expertise in the commercial nuclear power market. CANM is leading a critical project with a large nuclear manufacturer that is addressing a pervasive issue with the existing fleet of power plants as they extend their operating lives, which is part obsolescence.

Using advanced manufacturing technologies, CANM has demonstrated the capability to reverse engineer and manufacture replacement parts from worn/failed components.

CANM also initiated three new projects in support of a Small Modular Reactor (SMR), which is the next generation of nuclear power. These projects are addressing manufacturing issues that are potential road blocks for successful deployment of this new SMR. They include welding automation for large structures, manufacturability of a new forging alloy for large critical structures, and design/development of a safety monitoring deployment system.

Contributing to the Flightline of the Future



CTC developed a diesel-battery hybrid powertrain for the U.S. Air Force's Halvorsen 25K Loader, which is used to load and unload cargo from Air Force transport aircraft. CTC's solution improves agility, energy efficiency, and airman safety, while reducing greenhouse gas emissions.

Expanding the Applicability of Hypersonics

CTC is helping solve a wide variety of pressing challenges to real-world hypersonic applications. Hypersonic weapons, once developed, would fly more than five times the speed of sound and be extremely difficult to defend against. Advances in hypersonic technologies have significant implications for national

security, as well as for transportation and space systems. Research and development of offensive and defensive capabilities in hypersonics is critically important. CTC's relevant technologies include additive manufacturing, artificial intelligence and machine learning, cybersecurity for manufacturing, technology-based training solutions, and much more.



CTC is pursuing solutions to enable warfighter use of hypersonic technology. U.S. Air Force photo

CTC Hosted Department of Energy Leaders



U.S. Secretary of Energy, Dan Brouillette, and the Assistant Secretary for the Office of Nuclear Energy, Dr. Rita Baranwal, visited CTC to discuss energy supply chain issues facing America and how Western Pennsylvania is poised to help the U.S. overcome those issues. While at the Johnstown headquarters, the leaders saw first-hand some of the relevant cutting-edge research, technology, and development happening here.



READINESS

Helping to keep our nation safe is a significant responsibility, and CTC takes its role seriously. For decades our professionals have been providing the nation and U.S. warfighters with relevant analysis, creative solutions, and reliable innovations to improve readiness. Our work covers water and energy resilience, safety system effectiveness, infrastructure security, and more.

Continuing Environment, Safety, and Infrastructure Support to the Air Force

CTC is continuing its long history with the Department of the Air Force in providing policy, guidance, and oversight to support the military branch's energy and water portfolio. Most recently, the Deputy Assistant

Secretary of the Air Force for Environment, Safety, and Infrastructure (SAF/IEE) awarded the second option year on a five-year contract worth up to \$21 million. Under this competitively bid task order, CTC delivers proven program management processes along with subject matter expertise in facility energy, water and utility management, mission assurance, strategic communications, and statutory and legislative affairs. In addition to energy and water, this contract also covers safety, environment, and infrastructure.



From R&D to Operational Use in the Field—Accountability Tracking System Supporting Emergency Response

First used in the 2017 presidential inauguration and the 2018 State of the Union address, CTC continues to develop FEMA's Federal Emergency Response Official (F/ERO) Accountability Tracking System (ATS), a mobile, electronic validation system used to identify and track personnel during emergency response situations. Federal Emergency Management Agency Office of the Chief Information Officer awarded CTC a contract to provide system engineering, software design and development, integration, security, testing, installation, enhancement, training, deployment, operation and maintenance, and integration support

Capabilities

- Education & Training Solutions
- Logistics Policy & Analysis Services
- Energy, Resilience & Sustainability Services
- Readiness, Continuity & Preparedness Solutions
- Safety & Occupational Health Services



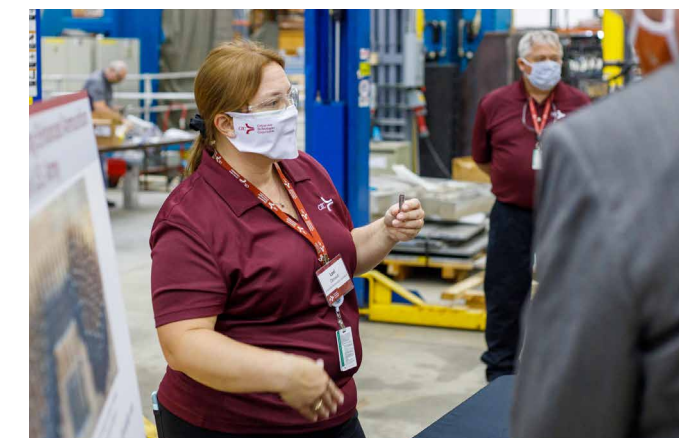
A Disaster Medical Assistance Team sets up tents at Lake Charles Memorial Hospital to provide support in response to Hurricane Laura. Responders like these are processed using F/ERO ATS. FEMA photo

for F/ERO ATS, as well as support for FEMA disaster deployment and credential issuing logistics. CTC was awarded a modification to the initial contract to deploy PIV-I credentials to select state, local tribal, and territorial entities. The F/ERO ATS has been used in multiple hurricanes in the U.S. as well as in the U.S. Virgin Islands and Puerto Rico, where it tracked F/EROs going on and off ships deployed for disaster relief.

CTC provides deep expertise to support our nation's readiness efforts.

Collaborating with Higher Education on COVID-19 Response

In a collaboration with Indiana University of Pennsylvania (IUP), CTC initiated research on COVID-19 readiness and response of Pennsylvania companies. Our work included a survey to examine workplace and personal variables that influence workers' perception of readiness and response to COVID-19. Distilling lessons from this pandemic while still fresh will provide resources for other investigations and response to future emergencies. Several CTC team members are IUP Safety Sciences graduates, a natural extension of the historic collaboration between IUP's world-class program and CTC's highly engaged safety professionals.

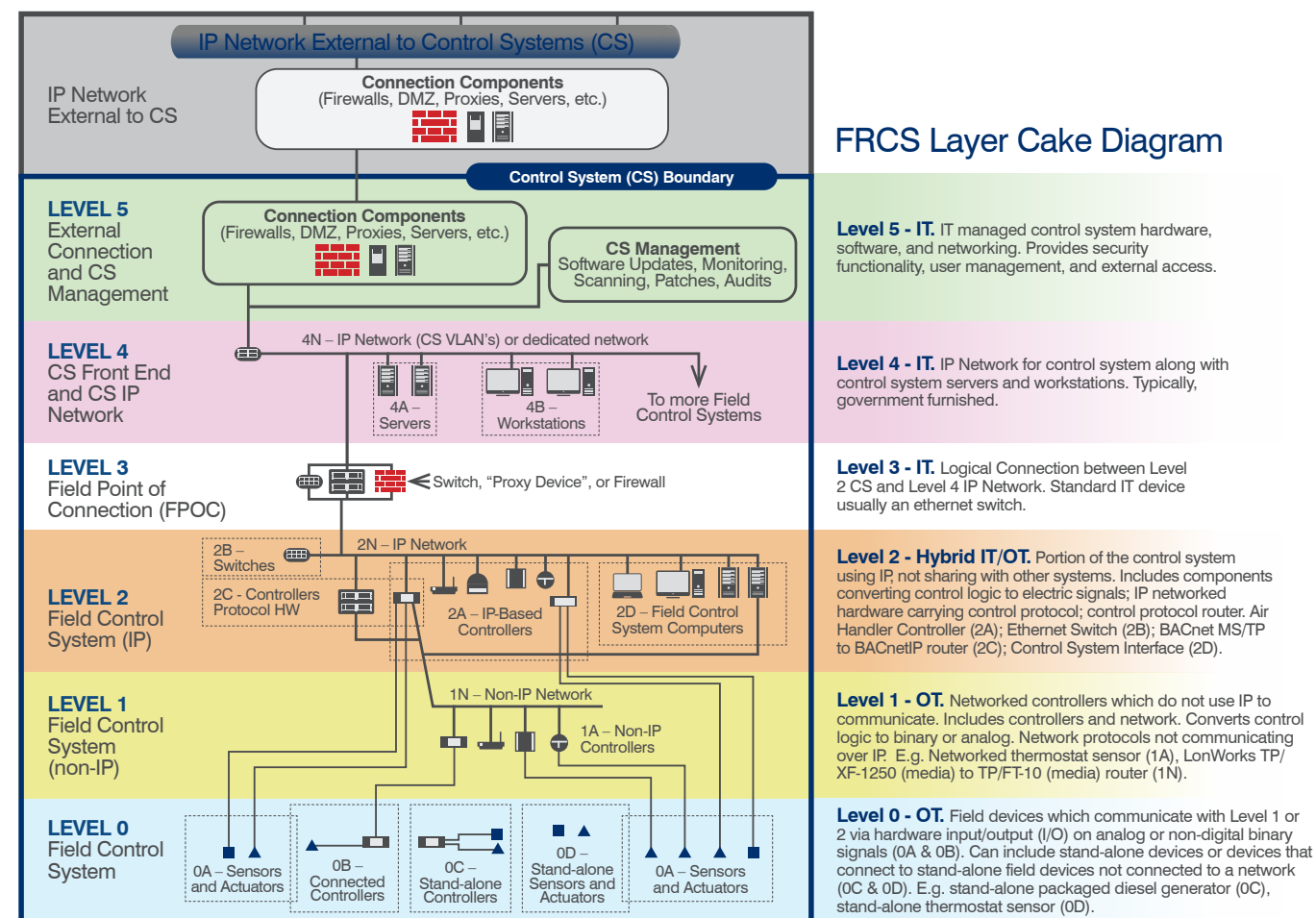


Starting in the spring of 2020, COVID-19 changed the way we all do business. CTC is working with a state university to research how Pennsylvania companies responded to this pandemic in an effort to be better prepared for any future threats.

Securing Facility Related Control Systems and Improving Energy Resiliency

CTC is building on its rich history of helping ensure Marine Corps systems are securely functioning and optimized to improve system performance. Most recently, the U.S. Marine Corps Installations Command (MCICOM) awarded a \$16 million competitively bid contract to provide functional and technical programmatic support for securing the Marine Corps'

Facility Related Control Systems (FRCS). The FRCS program consists of 350+ systems including utilities, energy, fueling, fire and life safety, electronic security, and several other platforms that are associated with the operation of an Installation. CTC's contributions include securing this infrastructure and FRCS data. As a result of CTC's work, the Marine Corps will reduce energy consumption; extend the operating life of devices, systems, and plants; and enable the implementation and operation of energy-resilient technologies, allowing the warfighter to meet mission requirements.



CTC helps standardize and implement the 5-Level control system architecture as defined in the Unified Facilities Criteria (UFC) to incorporate cybersecurity requirements into the design of facility related control systems.

10/29/20, Version 1, Derived from DoD Unified Facility Criteria 4-010-06.

Building on Enhancements to Marine Corps Energy Security

MCICOM also awarded two contracts continuing and expanding the work CTC has previously done to support the Marine Corps' energy program and Installation Energy Security Plans (IESPs).

CTC's work spans the Marine Corps enterprise (i.e. headquarters, regions, and installations) to deliver holistic energy security solutions for more resilient Marine Corps installations.

Positive feedback like this validates clients' trust in CTC's commitment and capabilities for delivering comprehensive program and project development support.

"The support CTC and its team members provide has become the backbone of the Marine Corps Energy Program. I look forward to their continued exceptional contributions as we work together to improve Marine Corps energy security in support of critical operations worldwide."

— Randy Monohan, MCICOM Energy Projects Officer



CTC's ongoing support to the Marine Corps' Energy Program and IESP efforts are helping to connect all the pieces of the energy security puzzle to build a plan for resilience.



INFORMATION TECHNOLOGY

CTC has delivered thousands of customized information technology (IT) solutions to the Department of Defense (DoD) and Intelligence Community over the past few decades. Our experts are leading the rapidly evolving IT industry with innovative solutions that work to improve access to and safeguard data.

Improving Information Exchange When and Where It Matters Most

In the past, those on the front lines around the globe would have to reach back to the data centers in the U.S. for needed information, which takes a lot of time and bandwidth. CTC is rapidly developing game-changing edge node solutions for the DoD and Intelligence Community that bring current geospatial intelligence data, applications, and services to coalition forces much faster and with less bandwidth.



CTC's edge node system provides our nation's military with the tools necessary to analyze and exploit intelligence and plan and execute operations faster than ever before.

Capabilities

- Agile Software Development & DevSecOps
- Artificial Intelligence, Machine Learning (ML) & ML Assurance
- Cloud Architecture & Security
- Cloud-based Mission Management & Sensor Data Exploitation
- Cross Domain Solutions
- Cybersecurity
- Edge Node Architecture & Deployment
- Extended Reality

Edge node technology can be used in a variety of critical situations, including helping warfighters find helicopter landing zones, conduct surveillance, locate targets, and assess damage. In the context of data exploitation and analytic capabilities at the tactical edge, real value comes in supplying vital cognitive aids for operational decisions. These aids provide a significant advantage to those employing them, especially in tactical scenarios where actions must be taken quickly.

Cybersecurity: Our Mission is Securing Your Mission

A top priority of almost every organization is protecting its data from cyberattacks or unauthorized access. CTC provides cybersecurity professional services and advanced information technology solutions to both public and private organizations. Our clients benefit from our technical innovation, commercial industry and government expertise, and professional excellence.

The CTC team offers strategic level (CISO, Boardroom) planning assistance, cyber training capabilities, assessment services, and incident response planning capabilities.



CTC's experts are nationally recognized, trusted providers of advanced cyber solutions.

Machine Learning Solutions Tailored to Specific Applications

CTC leverages deep knowledge of machine learning (ML) and modern engineering and software development design principles to create efficient and effective solutions for both the cloud and edge applications. We offer secure and private machine learning models that ensure high utility, assurance, and interpretability.

ML technologies can solve real-world organizational challenges and significantly improve existing processes in a variety of ways. CTC keeps pace with the rapidly changing ML market to understand the implications of emerging research and to evaluate and integrate these tools and capabilities into commercial ML tools or our own COMBINE™ big data microservices architecture platform.



Beyond understanding machine learning techniques and algorithms, we are experts at applying the right approach to address your specific needs.



ENTERPRISE VENTURES CORPORATION



Edward D. Peretin
President
Enterprise Ventures Corporation

Enterprise Ventures Corporation (EVC) continues to face the global challenges of the coronavirus pandemic. In FY21, those challenges directly hit our employees and their families, our clients, and our partners. Our extremely resilient employees balanced remote and in-office work as necessary throughout the year. We continued to focus on our goals of growing our EVC business units—manufacturing and sustainment, specialty coatings, and AGIS, our file-transfer cross-domain cybersecurity solution. Despite the year’s challenges, key milestones were achieved within each of these business units and, ultimately, this resulted in very positive results for the organization.

Within the manufacturing and sustainment group, new clients of our custom aviation maintenance tools were added throughout the year, and sales of our helicopter bridge maintenance tool reached an all-time high. The first large-volume orders of our innovative and breakthrough coating technology were received and delivered to multiple clients. Renewal rates for our cybersecurity software product, AGIS, is holding in the high 90s, and new users continue to be added to our pipeline and active users list. In addition to the milestones we realized in each business segment, investments were made in the evaluation and development of new technologies for incorporation into the EVC suite of product offerings. These new potential EVC products will offer additional opportunities as we look to continue EVC growth and alignment with CTC’s strategic objectives.

We continue to promote all aspects of a safe and healthy working environment because we know that our employees are the key to our success and the foundation upon which future growth will be built. To each of our employees, along with our colleagues at CTC, our clients, and our EVC board members—including the recent additions, the Honorable Kevin Fahey and Mr. John Tile—thank you for your tremendous contributions that you make to the EVC organization. I look forward to another year of growth and success at EVC. This section of the CTC annual report features some of FY21’s highlights.

Two Distinguished Professionals Join EVC Board

Two highly accomplished executives have joined the EVC Board of Directors. The Honorable Kevin M. Fahey and Mr. John C. Tile were elected to the board in May 2021. They both bring deep industry experience that will complement the existing board members.



Kevin M. Fahey

The Honorable Kevin M. Fahey is currently the President and Chief Operating Officer of Cypress International, a consulting firm that helps industry support the Department of Defense (DoD) and other federal agencies. Prior to this position, he was the Assistant Secretary of Defense for Acquisition, where he advised DoD leaders on acquisition matters and the development of strategic, space, intelligence, tactical warfare, command and control, and business systems.



John G. Tile

Mr. John G. Tile has held leadership positions in engineering, logistics, and program management during his 42-year career in the defense industry. He currently leads his own consulting company, LITE Advisors, LLC, and is an Adjunct Business Professor at Elizabethtown College. Mr. Tile spent the majority of his career at BAE Systems, where he led programs and groups responsible for up to \$2 billion in revenue and consisting of up to 800 people worldwide.

EVC Board of Directors



Edward J. Sheehan, Jr.
Chair



Russell C. Davis
Director



Kevin M. Fahey
Director



Dale M. Mosier
Director



Gary C. Slack
Director



John G. Tile
Director

Specialty Coatings for Military in Demand

EVC continues to fill orders for specialized military coatings, with long-term demand for this product expected from numerous customers. This activity is a prime example of how CTC and EVC work together to advance technologies and transition them from research and development to commercialization and production. Together, EVC and CTC continue to work with our customers to develop additional products related to this technology.



CTC and EVC work hand-in-hand to optimize and produce advanced technologies, such as our proprietary specialty coating for military applications.

Meeting Military Needs: From Design to Production to Sustainment

EVC continues to focus on our Carriage, Stream, Tow and Recovery System (CSTRS); we now support the U.S. Navy with sustainment capabilities and service. In FY21, EVC laid the foundation to ramp up sustainment work and build capability for long-term CSTRS depot support.

CSTRS is a launch and handling system designed to support the Navy's requirement to provide an organic airborne mine countermeasure capability from an H-60 helicopter. CTC and EVC have been involved in CSTRS development from the very first proof-of-concept system through research and development, production, and sustainment.

CSTRS will enable the Navy's new Littoral Combat Ships (LCS) to readily respond to mine threats, providing an extra measure of safety for crew and ships during shallow water missions. In addition, the CSTRS design is modular and is capable of supporting the deployment requirements of different mine sensors that provide a range of mine countermeasures objectives.



CSTRS was developed to enable the MH-60S helicopter to deploy mine countermeasure sensors in shallow water missions, providing an extra measure of safety for crew and ships.



EVC Manufacturing & Sustainment Manager Brian Sendzik is shown with the most recent version of the Bridge Tool Deluxe Kit, which was developed with hands-on input from H-60 maintainers and improves maintenance process time and quality and reduces costs.

Specialized Aviation Maintenance Tools

In FY21, EVC enhanced and continued to deliver its specially designed aviation maintenance tools, including the H-60 Bridge Tool Deluxe Kit. EVC will continue its investment in this collection of tools and the many customers who are expanding their use of them. The Bridge Tool Deluxe Kit is designed for the removal and installation of H-60 and S-70 aircraft forward and aft bridge assembly components.

Like the Bridge Tool Deluxe Kit, the Quick Skive Removal Tools were specially designed for aviation and industrial maintenance. These tools remove materials from fragile, scratch-prone surfaces. This collection includes various hand and power tools that enable faster removal and one-person operation and avoids damage to the base primer, substrate, or metal treatment.

The development of these tools is another example of the beneficial relationship between CTC and EVC. In FY21, EVC exceeded sales expectations in specialized tools, demonstrating that the technology solutions developed are needed and effective.

Cross Domain Solution

EVC's Advanced Guard for Information Security (AGIS) system securely transfers at-risk data files (Word, Excel, PowerPoint, PDF, imagery files and others) between networks of varying security classifications, while retaining the original file format. Risks for viruses, malware, malicious code, hidden content, and embedded objects can be mitigated by AGIS.

In an indication that its product is needed and effective, EVC has a client renewal rate of approximately 98% for AGIS solutions. EVC will continue to develop the AGIS product, assess opportunities for growth, and explore options to leverage the future potential of cross domain solutions in an ever-growing marketplace.



EVC's cross domain solution, Advanced Guard for Information Security, helps organizations mitigate cyber threats.

Key milestones were met in each of EVC's business units—manufacturing & sustainment, specialty coatings, and AGIS.



CTC FOUNDATION



Howard G. McClintic
Executive Director
CTC Foundation

The CTC Foundation is CTC's philanthropic arm that also informs the public about emerging technologies and concepts in education, environment, and energy. Cumulatively, the Foundation has distributed more than \$6 million to diverse nonprofit organizations in the communities where CTC employees work and live. As the nation commemorates the 20th anniversary of the 9/11 terrorist attack, both the Foundation and CTC continue their commitments to the Flight 93 National Memorial in Shanksville, PA.

I am honored to have been appointed by the Secretary of Energy to the prestigious National Coal Council. In addition, CTC was awarded funds to advance the concept of extracting rare earth elements (REEs) from coal fly ash. Using this innovative patented technology, a domestic REE supply chain, which has important national security implications, can be developed. A commercial plant is being planned and could be realized in the next few years.

While REEs are used in manufacturing permanent magnets, electric vehicles, mobile phones and computers, this same gasification technology recycles single-use plastic bags (and all other unsorted plastics, including wind turbine blades) to be remade into new plastics, closing the loop for a circular/sustainable economy.

These charitable and technological activities help advance the CTC Foundation's ultimate goal of ensuring the future through science, innovation, and technology.

Charitable Giving

Community/Charity
\$99,000

Arts
\$23,000

Education
\$13,500

Board of Directors



Conway B. Jones, Jr.
Chair



Edward J. Sheehan, Jr.
Vice Chair



Robert A. Johnson
Director/Secretary



Mike Kane
Director

HONOR ROLL

Join us in honoring our colleagues who were on active or reserve military duty during fiscal year 2021.

Andrade Azevedo

Sidney Johnston

Joshua Brown

Matthew Porter

Oliver Bugarin

Dustin Rummell

Bryan Groves

Dakota Samuels

Elizabeth Gubanich

Lynn Wagner

Kevin Hillegas

Derric Wiltshire

Erick Jensen

James Wilson

Thank you for your continued service to our nation.

SHINING OUR LIGHT

CTC places high value on being a true partner within our organization and with our clients, partners, and communities. We are personally invested in each other's success. That culture has resulted in national, state and regional recognition, as well as the desire to celebrate our accomplishments together.

Earning Recognition



For the fifth straight year, in 2021 CTC was named a Top Veteran-Friendly Company by *U.S. Veterans Magazine*. The list was compiled by market and independent research, diversity conference participation, and survey responses.

In 2020, CTC not only made the list as a Best Places to Work in PA, we ranked in the top 20 in the large employer category! Employee feedback is responsible for 75% of the overall score; we are grateful for their input and for their hard work and dedication. This is the 13th year that CTC has made this list. The competition is managed by Best Companies Group and published in the *Central Penn Business Journal* and *Lehigh Valley Business*.



CTC was named to the *Pennsylvania Business Central's* Top 100 Organizations list. Winners are picked from throughout the publication's 23-county readership

area based on their positive impacts in the business community.

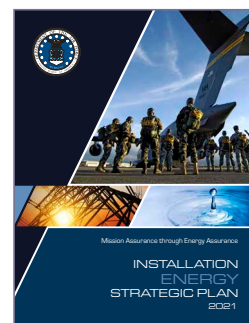
In addition, both CTC President and CEO Ed Sheehan and Executive Vice President and COO George Appley were named to the *Pennsylvania Business Central's* Top 100 People list.



Edward Sheehan, Jr. George W. Appley



CTC's in-house team produced several award-winning marketing communications documents.



CTC's company-wide fiscal year 2020 annual report won a gold MarCom Award and a silver Service Industry Advertising Award. This is the 15th straight year that the annual report has been honored in national and international competitions.

CTC designed a Department of the Air Force document that won a platinum 2021 Hermes Creative Award in the category of Public

Relations/Communications | Strategic Programs, Government Strategic Plan. The winning document is the Department of the Air Force Installation Energy Strategic Plan 2021, which aligns installation energy efforts with mission needs.

In addition, the CTC-produced U.S. Army Medical Command (MEDCOM) Sustainability Report 2020 won a gold MarCom award and a merit award in the Service Industry Advertising Award competition.



Team Building in a COVID-friendly Way

It was a winter holiday season like no other, but CTC continued traditions as well as possible. In light of the COVID-19 pandemic, employees gathered together via video conferences and contributed to those less fortunate.

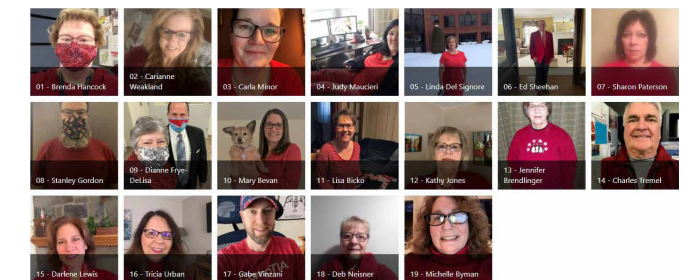


On December 23rd, President and CEO Ed Sheehan welcomed more than 100 attendees to a virtual

gathering; smaller groups also met online for fellowship, some featuring games such as best ugly sweater and decorated Christmas trees.

Just like every year, employees were generous to those less fortunate, contributing to charities such as Toys for Tots, the Salvation Army Treasures for Children and Senior Citizens, DC Diaper Bank, and the Capital Area Foodbank.

CTC added a socialization component to the National Wear Red Day, which raises awareness for heart disease, by encouraging employees to share pictures of their red attire for others to see.



By the summer of 2021, people were able to gather a bit more freely, especially when outside. EVC employees enjoyed a picnic, complete with spirited corn hole games, at President Ed Peretin's home, to celebrate the end of a successful fiscal year.



Concurrent Technologies Corporation (CTC) is an independent, nonprofit, applied scientific research and development professional services organization. Together with our affiliates, Enterprise Ventures Corporation and CTC Foundation, we 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 support our clients' core mission objectives with customized solutions and strive to exceed expectations.

CTC's and EVC's quality management systems are certified to the ISO 9001:2015 (Quality) and 14001:2015 (Environmental) standards, and to AS9100D:2016 (Quality-Aerospace-Related Products).

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