R.E. WARNER
& ASSOCIATES INC.

ENGINEERS
ARCHITECTS
SURVEYORS
CONSTRUCTION MANAGERS

Excellence BY DESIGN

SUMMER 2020

A DIGITAL MAGAZINE FOR CLIENTS AND FRIENDS OF R.E. WARNER & ASSOCIATES, INC.

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ON THE COVER: OUR BOAT LOADER UPGRADE PROJECT IS NOW FULLY OPERATIONAL FOR THIS SUMMER'S CARGO SEASON (PAGE 10)

PRESIDENT'S MESSAGE

by Ted Beltavski, PE, MS

Dear Colleagues,

These past months have been challenging for everyone, and we hope that you are all safe and healthy amid the COVID-19 pandemic. We feel extremely fortunate to welcome our remote employees back to the office to rejoin their colleagues who remained in our offices to provide essential professional services. As the state of this public health emergency changes from day to day, we will remain focused on carefully evaluating our path forward to ensure we continue to operate in a way that upholds the health and safety of our employees, clients and communities.

Like other businesses around the world, we're doing everything we can to continue serving our clients. Here are some actions we're taking to ensure business continuity at R.E. Warner:

- Non-employees are restricted from entering our office space; outside vendors are being asked to reschedule appointments for a later time.
- All non-essential travel has been discontinued.
- We are continuing communication through email, phone, Microsoft Teams, and conference calls.
- Maintaining social distancing.
- All employees to wear facial coverings other than when the employee works alone in their assigned work area.
- Employees must perform daily symptom assessment.
- Employees to stay home if symptomatic.
- Frequent disinfection of desks, workstations, and high-contact surfaces.
- Daily disinfection of common area.

We have created a written corporate policy outlining these and other internal procedures, including a facility access form that follows CDC guidance.

While circumstances change, our commitment to our employees and their families, our communities, and our clients remains stronger than ever. Regardless of how or where our employees have continued their work over recent months, their steadfast commitment during this difficult time has been nothing short of inspirational. We are grateful for the hard work underway across our company.

We are all in this together. We will continue to monitor the COVID-19 situation and will follow guidance from public health officials and government agencies, so we can continue to support our employees, clients and communities as needed.

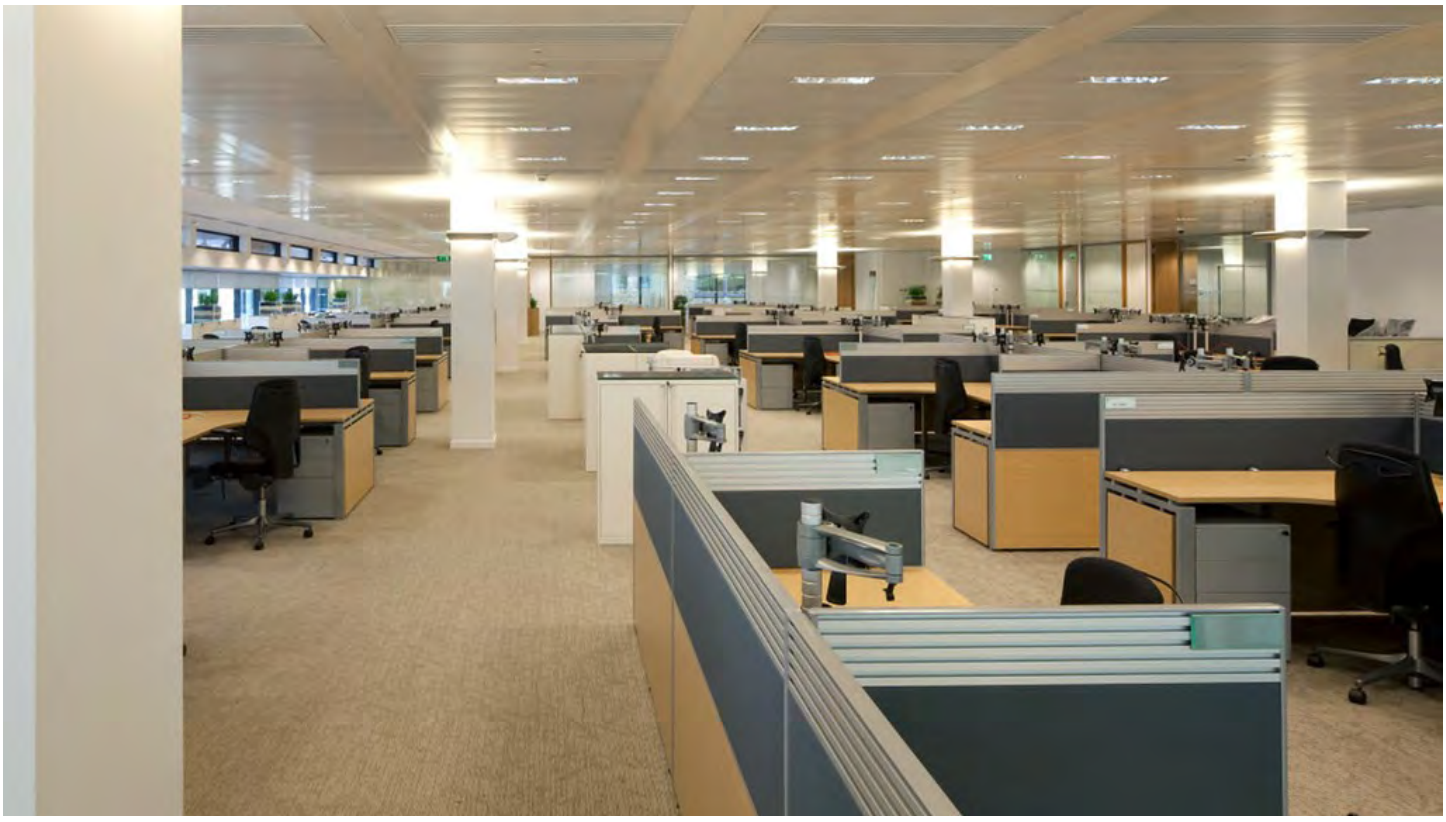
For more information about COVID-19 and what you can do to keep healthy and safe, visit the Centers for Disease Control at cdc.gov or your local health department's website.

Sincerely,

Ted A. Beltavski, PE, MS
President

FOCUS ON: COVID-19 RETURN TO WORK SERVICES

We're here to help you make the transition back to work as seamless as possible.



Are you preparing your company to come back to work as the country slowly opens operations amidst the COVID-19 pandemic? Are you finding yourself and your company overwhelmed with trying to meet the requirements set forth by the CDC and state and local governments, especially when the guidelines seem to change daily?

R.E. Warner & Associates, Inc. has been working with various companies and municipalities to assist them in their efforts to return their staff to work in an efficient, safe, and budget friendly manner. We are here to help you determine and implement measures to assist you in bringing your staff back to work.

RETURN TO WORK SERVICES WE CAN PROVIDE

- A workplace hazard assessment.
- New occupancy calculations that consider the six-foot social distancing requirements as well as the suggested reductions in overall occupancy.
- Reorganization of your space or redistribution of staff to adhere to the revised occupancy limits and social distancing.
- Furniture alterations, such as the use of plexiglass barriers, and reorganization.
- Assistance finding new technologies to reduce high contact surfaces (e.g. motion activated lights, touchless doors).
- HVAC/Filter modifications.
- Locations and set up of health check stations.
- Locations and set up of sanitizing stations.
- Development and placement of signage.
- Provisions to screen and separate the public.
- Cleaning procedures and maintenance.
- Development of a list of required or recommended PPE based on the nature of your work.
- Policies and control procedures documentation.

As we all navigate through these unchartered waters we want you to know that R.E. Warner is here to help you make the transition back to work as seamless as possible for you, your staff and your guests. By including us in your plans you are freed up to focus on the nature of your business. *Contact Senior Project Manager Jen Kalin, RA*

Helpful Reads:

Viewpoint: Six Degrees of Separation: A Roadmap for Safe Return to Work
https://www.enr.com/articles/49474-viewpoint-six-degrees-of-separation-a-roadmap-for-safe-return-to-work

How offices will change after coronavirus
https://www.bbc.com/worklife/article/20200514-how-the-post-pandemic-office-will-change

Best Practices For Reopening Manufacturing Facilities
https://www.industryweek.com/covid19/article/21131902/covid19-shared-practices-for-manufacturers

Coping with the New Normal at Work
https://www.industryweek.com/covid19/article/21133188/coping-with-the-new-normal-at-work

Forget sustainability. What's your building's Covid rating?
https://therealdeal.com/2020/06/08/forget-sustainability-whats-your-buildings-covid-rating/

Technology at the Forefront for Healthier High-Rise Buildings
https://www.barrons.com/articles/technology-at-the-forefront-for-healthier-high-rise-buildings-01591626244

WHAT WE'RE WORKING ON

Recent projects across our markets

METALS MARKET

2020 INSPECTION PROGRAM FOR SELECTED MILL BUILDINGS AND CRANE RUNWAY SYSTEMS

R.E. Warner will perform an observation inspection of major runway system components for a metal manufacturer. This will consist of runway girders, girder seats, rail sections, rail hardware, cracked or missing bolts, back up girders, bottom flanges, lifelines, and checking building columns for damage. A post inspection report for each of the six crane runways will be furnished to the client along with standard engineering repair recommendations.

A

POWERHOUSE COOLING TOWER MAKEUP WATER PRELIMINARY ENGINEERING

R.E. Warner is contracted to provide preliminary engineering and design of three routes for the transmission of makeup water from a steel plant's water treatment plant to their Powerhouse cooling tower location. Our scope of work includes providing a summary report using structural, mechanical, and electrical best engineering practices to develop the routing plans and estimated construction cost for each route selected.

AUTO & MANUFACTURING MARKET

BLOCK MODULES RELOCATION DESIGN SERVICES

Preparation of architectural and mechanical, electrical, and structural construction documents for building and facility upgrades to relocate three block line modules from a Michigan Auto Plant to a Cleveland Auto Plant. Work involves HVAC, piping, lighting, power, substation, roof framing, platform framing, code study, ADA compliant restroom, wall elevations, equipment/fixture schedules, and finish schedules.

BUILDING EXPANSION

Design/Build services to design and construct a 33,800-square-foot building expansion at a Euclid manufacturing plant. This contract is for Phase 3 Pre-Construction work. The addition includes space for warehouse, production, shipping, and multiple offices, as well as an overhead bridge crane. Our work includes design, site surveying, construction drawings for architectural, civil, structural, mechanical, and electrical disciplines, specifications, and general arrangements. The primary design areas include a two-story office space; a remodeled and expanded lunchroom with training rooms; new structural steel building frame and second floor office; building foundations; underground utility relocations and roadways; site surveying; site security fencing, gates, and cameras; and general building HVAC, power and lighting.

CHEMICAL PROCESSING

SHORT CIRCUIT AND COORDINATION STUDY AND ARC FLASH HAZARD ANALYSIS

R.E. Warner will conduct a short circuit and coordination study and arc flash hazard analysis of a Sub Main Transformer and associated equipment at a Painesville manufacturing facility. The project will improve plant safety and ensure proper protection for personnel who perform live electrical work. Our scope of work includes providing short circuit and arc flash values at each switchgear, MCC, and three phase panel starting at the Sub Main Transformer and working downstream.

Electrical engineering services include electrical equipment data collection, power system modeling in EasyPower, short circuit and protective device coordination studies, arc flash calculations, report and recommendations to reduce incident energy exposure, and arc flash warning labels.

POWER MARKET

ENERGY DELIVERY PLANNING AND PROTECTION ENGINEERING SUPPORT

Since 2014, R.E. Warner has been providing ongoing engineering services to a major electric utility company's Energy Delivery Planning and Protection Data and Reporting Group. Our scope of work involves using their proprietary software to provide transmission line loadability data. Engineering services consists of reviewing and updating models currently in their program for all current and future construction to provide and maintain correct up to date facility ratings. Based on this experience and our successful performance, R.E. Warner was awarded a contract to further assist our client with their Transmission Planning and Protection Compliance Mitigation Plan System Verification facility rating project as follows:

Transmission Owners in conjunction with the North American Electric Reliability Corporation (NERC) standard are required to have documented methodology for determining facility ratings of its solely and jointly owned Bulk Electric System (BES) facilities. In doing so, they must have documented rating methodology and must provide facility ratings and limiting components to ensure facility ratings used in the reliable planning and operation of their BES are technically sound.

During a recent audit of our client's BES in compliance to the NERC Reliability Standard it was discovered some equipment that was currently modeled in their proprietary software for current facility rating documentation was not what was currently in service in the field. Once replacing the equipment with what was actually in the field it was discovered a decrease in the current facility ratings. In anticipation of their self-report response to ReliabilityFirst (Federal Energy Regulatory Commission) and in consideration of previous responses from other utilities for similar issues, our client's Transmission Planning and Protection group has initiated a Walkdown Verification Pilot Program as part of a Mitigation Plan to verify compliance with NERC standard facility ratings on their Transmission System.

R.E. Warner has been contracted to contribute to this effort in a consultant role utilizing our technical knowledge of our client's facility ratings documenting program and expertise in electrical engineering to support this effort. Our work includes performing verification of equipment located within its current BES facilities and verifying facility ratings for 761 regional transmission substations. Verification consists of review and analysis of engineering prints, asset databases, and field assets for accuracy and consistency of ratings.

GOVERNMENT MARKET

PUBLIC AGENCY ON-CALL A/E CONTRACTS

R.E. Warner offers specialized expertise in executing multi-discipline projects for on-call, task order contracts. Currently, our firm is providing multi-discipline engineering, architecture and surveying services for a variety of task orders requested under indefinite delivery, indefinite quantity contracts with several public agencies. Recent task orders include:

Akron Metropolitan Housing Authority

- Allen Dickson and Valley View Apartments Retaining Wall Evaluation
- Pinewood Gardens Drainage Restoration Construction Administration Services
- Paul E. Belcher Apartments Exterior Restoration

City of Cleveland Division of Water

- Window Conditions Investigation at the Parma and Harvard Sites

City of Cleveland Division of Architecture and Site Development

- Rockefeller Greenhouse Needs Assessment
- Gateway Garage East Assessment and Repairs
- Fire Station 1 HVAC Upgrades
- Fire Station 23 Sewer Upgrades
- Earle B. Turner Hazardous Materials Survey

CITY OF PAINESVILLE STORRS STREET UTILITY DEPARTMENT COMPLEX PROGRAMMING AND STRUCTURAL OBSERVATION

R.E. Warner has been awarded a contract to perform a structural observation and prepare a report of findings of the current conditions of existing buildings of the Painesville Water Department's Storrs Street Utility Complex. Additionally, we will update our 2014 conceptual design program that included space planning, cost schedules and phasing for the City to use to plan out their new Utility complex to be located on their existing City property.

COMMERCIAL & INSTITUTIONAL MARKET

METROHEALTH CAMPUS TRANSFORMATION PROJECT SURVEYING SERVICES

The MetroHealth Transformation Project is currently in the steel erection, concrete pouring, and MEP system installation stage of construction. As part of the Transformation team, R.E. Warner is providing horizontal and vertical control surveys and MEP layout for the $946-million, 11-story, 264-bed hospital on its main campus on West 25th Street in Cleveland. Construction is scheduled to be completed in 2022.

During a site walk through, one of our contractors emphasized how productive and accurate our survey crews are in saying...*"They are very organized, efficient and setting the pace. They are definitely earning their keep."*

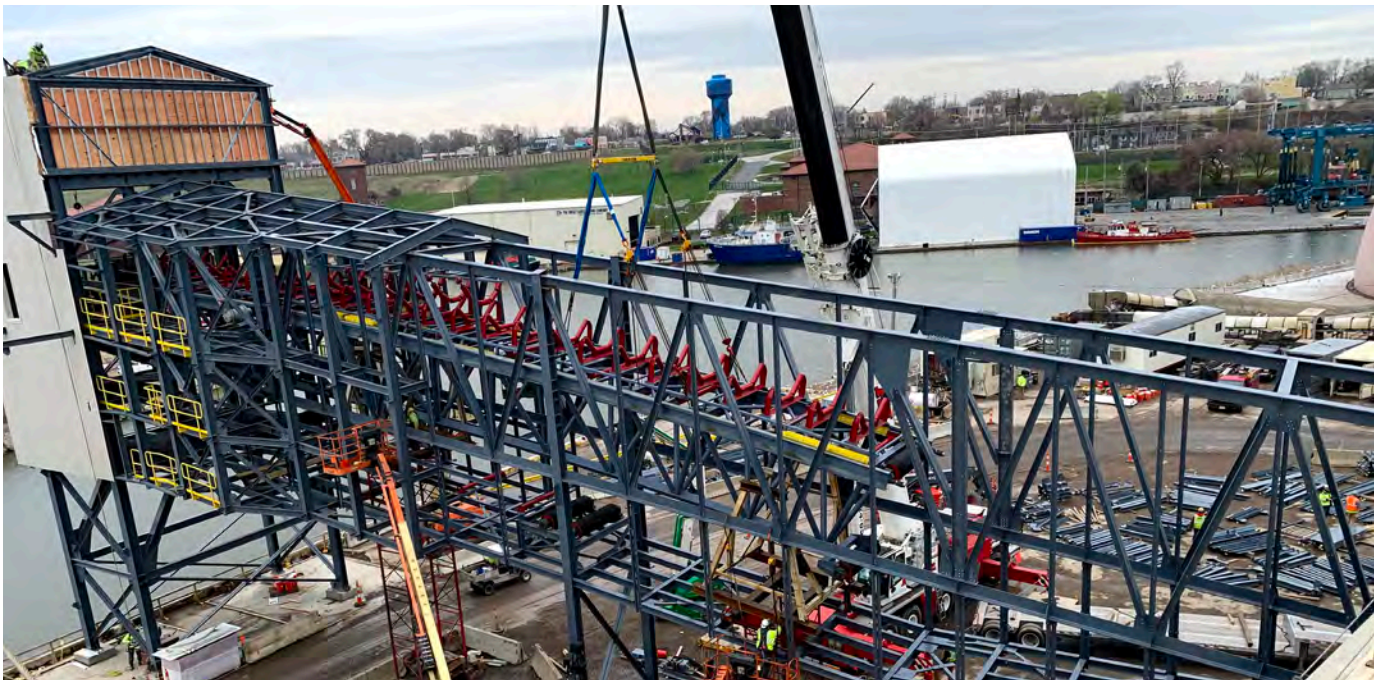
NEW FAIRLAWN CRYSTAL CLINIC ORTHOPAEDIC CENTER HOSPITAL SURVEYING SERVICES

R.E. Warner provided setup and construction staking for MEP layout of the $100 million Crystal Clinic Orthopaedic Center for Summa Health. The new facility is a 60-bed, 160,000-square-foot specialty hospital that will house 12 operating rooms, Quickcare, an urgent orthopaedic clinic, imaging and other services in Fairlawn. Expected completion for the new hospital is Summer 2021.

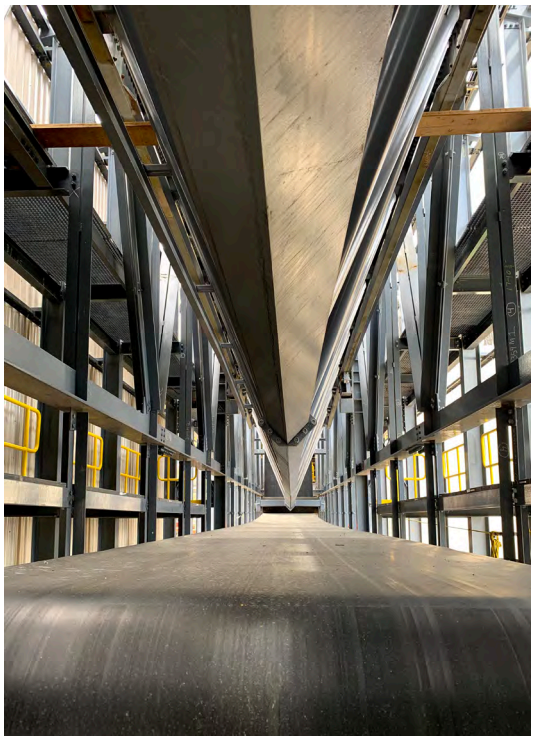
The new Fairlawn Crystal Clinic Orthopaedic Center Hospital recently celebrated a milestone in construction with the ceremonial "Topping Out" of the steel structure.

FEATURED PROJECT

BOAT LOADER COMPLEX CONVEYOR STEEL STRUCTURE



Since 2018, R.E. Warner & Associates, Inc. has been in the process of upgrading a conveyor system for loading large cargo boats in the Flats of Cleveland. We were involved in the project early to help ensure structural adequacy of the existing system during the design of the new system. For the new system we have provided preliminary process layout, cost estimating, project management and design work including: structural, architectural, piping, HVAC, and electrical for a new retractable conveyor, foundations and support.



PROJECT CHALLENGES:

- Fast track design and construction schedule.
- Uniquely shaped conveyor system requiring a complex support structure.
- Construction had to be ongoing while the facility was fully functioning, adding traffic maintenance challenges.
- Work with the Client and OEM to balance needs in our design. Maintenance access was a priority for the client, while very strict deflection tolerances (vertical and lateral) and support locations were a requirement by the conveyor manufacturer.
- Tie the new structure into an existing building, but transfer minimal force.
- The foundations had to be designed in a way that would limit demolition of the existing dock and pavement in order to maintain the traffic mentioned previously.
- Since this conveyor can move, or "boom out", it introduced several loading scenarios on the structure. Over 400 load combinations were considered in the analysis.

PERSPECTIVES & INSIGHTS

Industrial

GROUNDING PLATE SOLUTION

This article is by Jim Lender, Senior Electrical Designer. Jim has over 30 years of design experience on projects within the industrial process sector. Notably, he has been a team leader for the creation of original installation drawings from programming schematics for industrial process lines. He has also performed power system analysis, arc-flash analysis and relay coordination as well as designed power distribution and control systems. His software knowledge includes AutoCAD, EasyPower, Microsoft Access, Microsoft Project, and the Microsoft Office suite.

R.E. Warner is providing design engineering for BWXT Nuclear Operations Group's Building Improvements/ Expansion at its Barberton facility. Employees at this facility make heavy components for defense applications, and due to an anticipated increase in demand, BWXT needs to boost production capacity at the facility.

One of the design challenges in this project was providing sufficient grounding for the quantity of welding stations desired. A significant portion of the manufacturing operations at the Barberton plant involves welding massive fabrications weighing several tons. Typically, this welding work has been done in assembly pits containing a grounding system consisting of a stand-off grounding bar to which the welding equipment is clamped. The grounding bars are mounted on the walls of the pits.

PROVIDING TECHNICAL SOLUTIONS THROUGH TEAMWORK AND A PASSION FOR SERVICE

In order to provide space usage flexibility and streamline operations, part of the building improvements/expansion design calls for grounding devices in the middle of the main assembly floor. The traditional grounding bar would stick out of the floor, however, posing a trip hazard as well as otherwise impeding operations. To accommodate welding stations in this area, our team was tasked with finding a grounding system that is flush with the floor.

Recalling a flush plate grounding apparatus used at a tanker truck transfer facility he had helped to design, one of our electrical designers began a search for a similar tool. Upon sourcing a potential option, we presented it to the client. They agreed it would work and it is specified to be utilized in construction of the improvements and expansion. We are pleased to have found a grounding system that maximizes the number of welding stations accommodated in the facility and that does not present safety hazards or operational challenges.

NEWS OF NOTE

R.E. Warner is pleased to recognize the following team members celebrating milestone anniversaries. We are very thankful for all the contributions they have made in making our company successful!

RECOGNIZING JANICE SERFOZO - 30 YEARS AT R.E. WARNER

Janice started with R.E. Warner in an entry level clerical position on March 26, 1990. Today, she is an integral member of our administrative team. Because of her experience with and proficiency in coordinating and managing various aspects of R.E. Warner's project operations, accounting, purchasing, and other administrative functions, she became our firm's Office Manager and Project Coordinator in 2019.

Janice's dedication, thoroughness, accuracy and attention to detail make her an invaluable team member. Her versatility and "can do" attitude are unparalleled and appreciated by all.

RECOGNIZING JEFF TERSCHAK- 20 YEARS AT R.E. WARNER

Jeff initially joined us as an assistant to our Manager, Information Technology on March 27, 2000. He was soon promoted to IT Manager. In recognition of his many contributions to our company, he was nominated and elected to become a Shareholder of the firm in 2006.

As technology becomes ever more complex and ingrained in the way we work and function as a professional services provider and business, Jeff is crucial to the effective operations of our firm. He keeps our information technology systems running and protected, and serves as IT troubleshooting support for everyone in the office. In addition to fulfilling his primary responsibilities with regard to our IT systems, Jeff also provides important input regarding our business and strategic technology plans. As the subject matter expert in our firm for IT, his insight is invaluable.

RECOGNIZING DEBBY JOPPECK - 30 YEARS AT R.E. WARNER

Debby started with R.E. Warner as an Accounting Clerk on June 25, 1990. She was promoted to Accounting Manager in 1996 and elected as a Shareholder of the Firm in 1998.

In her role, Debby is responsible for managing/coordinating and maintaining integrity of the company's fiscal activities, including conducting revenue reviews, monitoring expenditures, preparing reports, and recommending corrective action when necessary. Additionally, she assists in the administration of personnel affairs as necessary for administrative and operational efficiency of the Accounting Department. She also serves as liaison between the firm and other agencies to represent the financial interests of R.E. Warner.

Debby is known for being a team player and her dedication and thoroughness are appreciated by all!

Debby holds an Associate's Degree in Accounting from Bryant & Stratton.

PROFESSIONAL INVOLVEMENT

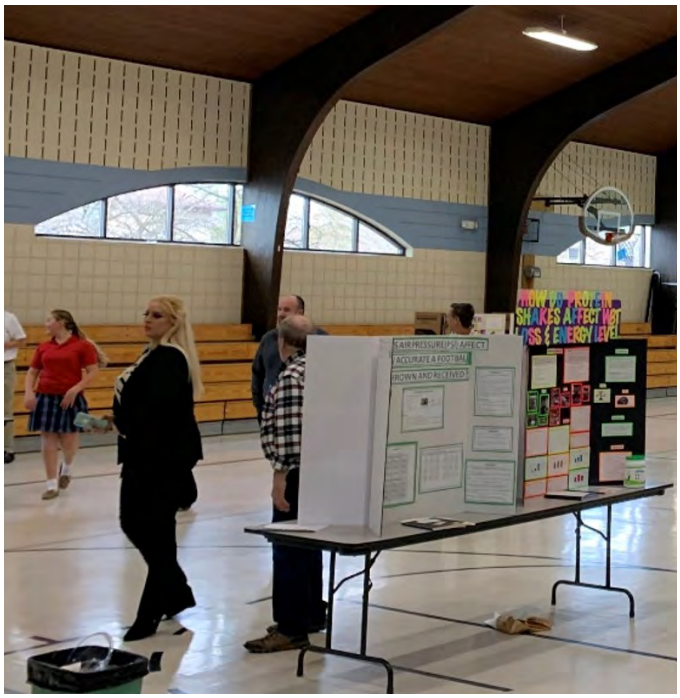
Highlights of recent industry participation

SMPS ROCK N' BOWL 2020

R.E. Warner formed a team and participated in the SMPS NEO's long-running annual fundraiser "Rock N' Bowl" at Spins Bowl in Independence. Proceeds benefit a scholarship fund for the ACE Mentor Program of Cleveland. R.E. Warner is proud to support the Society of Marketing Professional Services organization and their scholarship program.

ENGINEERS WEEK EVENTS

As part of our commitment to future engineers and in line with Engineers Week, R.E. Warner engaged with local students in our surrounding area to generate student interest in the STEM fields.



St. Michael School Science Fair
Civil Engineer Bill Vasko was happy to volunteer as a judge at the St. Michael Science Fair.

Westlake High School Speaking Engagement
Structural Engineer Ryan O'Hearn and Civil Engineer Bill Vasko shared their engineering career experiences and expertise with Westlake High School students to help each student's decision-making process as they begin planning their future.

REW STAFF ARE PROUD MEMBERS OF:

SEE YOU AT AISTECH 2020!

Attention all Metals clients and colleagues — note the rescheduled date and plan to join us at AISTech 2020! Rescheduled for August 31-September 3, 2020 in Cleveland at the Huntington Convention Center, our project managers and senior designers will be at the convention as exhibitors and attendees. Come visit us at Booth 2910!

AISTech — dubbed "Steel's Premier Technology Event" — features technologies from all over the world that help steel producers to compete more effectively in today's global market. AISTech is a can't-miss event for anyone involved at any level of today's steel marketplace, providing perspective on the technology and engineering expertise necessary to power a sustainable steel industry.

NEW TEAM MEMBERS

R.E. Warner welcomes the following new team members, adding to the experience and capabilities of our growing organization.

DANIEL KILRAIN // ELECTRICAL ENGINEER

Daniel is a recent graduate of Cleveland State University with a B.S. in Electrical Engineering. His engineering work experience includes serving as a Contracting/Controls Operations Intern at TRANE, where he assisted with tasks such as analyzing control drawings, project cost forecasting, gathering materials and coordinating on-site work.

He also assisted Controls Technicians with on-site installation, panel programming and start-ups, and troubleshooting controllers.

SETH KONRAD // ELECTRICAL ENGINEER

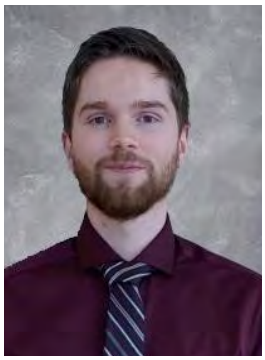
Seth is a recent graduate of the University of Toledo, where he earned a Bachelor of Science in Electrical Engineering. His coursework included Power Electronics, Power Systems Operation, Electrical Energy Conversion, Control Systems Design and Embedded Systems. He was a recipient of the Co-op Medallion, awarded to students who completed four or more co-op semesters.

His work experience includes interning as an electrical engineer at Ridge Tool Company in Elyria from January 2016-August 2018. There he provided support to the lead electrical engineer on various projects and assignments, designed and tested a device capable of measuring and recording current draw of a 300 Power Drive to gain valuable customer usage information, and designed and built a power supply station for tool testing purposes.

Seth has experience with AutoCAD and Inventor, is proficient with Arduino prototyping hardware and software, and is well-versed in C programming.

DEREK BITECOFER // ELECTRICAL ENGINEER

Derek is a graduate of the University of Akron, where he earned a Bachelor of Science in Electrical Engineering. He has experience with PSpice and LTSpice, and his senior project was the design of an Unattended Ground Moisture Sensor System.



JOE TRIVISION // SENIOR STRUCTURAL DESIGNER

Joe has over 20 years of experience with all types of foundations, concrete, steel, and wood projects across the industrial, commercial, and institutional sectors. He is Proficient in AutoCAD and also has experience with Revit Versions 2013 through 2017.

NAZIM TEMIZ // STRUCTURAL ENGINEER

Nazim has nearly 20 years experience. His experience includes planning, designing and directing construction and maintenance of structures and facilities; resolving engineering problems; overseeing and inspecting construction projects; recommending repairs and solutions; managing projects; and analyzing and improving methods and materials.

He is proficient and experienced in AutoCAD, Risa 3D, Risa Foundation, Enercalc, spMats, and Microsoft Office. He has a Bachelor's Degree in Civil Engineering from the University of Gaziantep in Turkey and is a registered professional engineer in Ohio.

EDWIN ORTIZ // ELECTRICAL ENGINEER

Edwin Ortiz holds a BS in Electrical Engineering from Cleveland State University. He has over six years of experience in MEP consulting, including energy, load, photometric, and voltage drop calculations; electrical power distribution, schematic and control drawings; and lighting, power, and fire alarm design.

His expertise includes energy compliance, code analysis, visual lighting, AutoCAD, Revit, Meeting Facilitation, and OSHA Authorized. He is a member of the Institute of Electrical and Electronics Engineers (IEEE) and Illuminating Engineering Society (IES).

DAVID BARNES // ELECTRICAL ENGINEER

David Barnes holds a BS in Applied Engineering Technology from Kent State University. His work experience includes roles as a lab technician, process engineer, and fire direction controlmen.

He is skilled in production and processing, inductive and deductive reasoning, engineering and technology, blueprint reading, technical writing, record keeping/ documentation, SOPs, FMEA, material testing, work instructions, and ISO standards.

SHERRI SQUIRES // OPERATIONS AND HR COORDINATOR

Sherri Squires re-joins R.E. Warner as Operations and HR Coordinator.

As Operations and HR Coordinator, Sherri will undertake a variety of Operations and HR administrative duties. Additionally, she will be working hand in hand with our executive team. Sherri possesses outstanding verbal and interpersonal communication skills, fantastic organization and time management skills, and excellent administrative skills. She offers a deep understanding of employee relationships and is enthusiastic and focused on improving employee engagement here at R.E. Warner.

Upon conclusion of their six month contract employment assignments, we are pleased to welcome Ron Pajestka, Abby Tyson, Erycka Stadnick, and Komlan Amesse as official R.E. Warner team members in our electrical department

RON PAJESTKA // ELECTRICAL ENGINEER

Ron is a recent graduate of Cleveland State University where he earned a Bachelor's of Science in Electrical Engineering. He graduated Magna Cum Laude.

Ron's coursework included AC and DC Circuit Analysis, Short Circuit Fault Analysis, SEL Micro-processor Relays, Printed Circuit Board Design, Power Systems and Power Electronics, Protective Relay Projects, and Controls and Linear Systems. His software knowledge includes Power-World Simulator, SEL AcSELerator, Eagle CAD, ORCAD PSpice, Simulink, Julia Language, Basic C, LabVIEW, and Pro Tools.

ABBY TYSON // ELECTRICAL ENGINEER

Abigail is a recent graduate of Case Western Reserve University where she earned a Bachelor's of Science in Electrical Engineering.

Her coursework focused on computer hardware, with additional experience in signal processing, solid state devices, and circuitry. Her software experience includes working with Java, MATLAB, Verilog, FPGA, and other hardware and software engineering tools.

ERYCKA STADNIK // ELECTRICAL ENGINEER

Erycka is a graduate of Cleveland State University with a B.S. in Electrical Engineering. Her software knowledge includes MathCAD, PSpice, PowerWorld, MATLAB/ Simulink, Scilab/XCos, and Altera Quartus II.

KOMLAN AMESSE // ELECTRICAL ENGINEER

Komlan is a Florida State University graduate with a B.S. in Electrical Engineering. He joins R.E. Warner from AEP where he was a Technician Associate. His responsibilities included: IPS (Intelligent Process Solutions) Pattern Population; Relay data entry into IPS; Data translations or validations using IPS; Compiling, analyzing, and interpreting information using IPS.

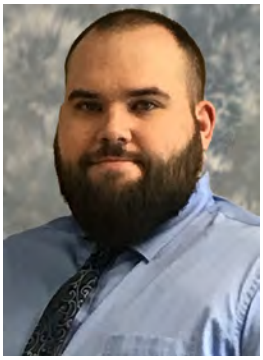
Our electrical engineering team is pleased to have Michael Lim, Josh Brown, and Kevin Munguia assisting in their workload as contract electrical engineers contributing to our electrical projects.

MICHAEL LIM // ELECTRICAL ENGINEER

Michael is a recent graduate of Lehigh University, P.C. Rossin College of Engineering and Applied Science, where he earned a Bachelor of Science in Electrical Engineering. His relevant coursework includes circuits and systems, electromechanics, semiconductor optoelectronics, linear electronic circuits, and electromagnetic waves with experience in lithium-ion batteries. His technical skills include MATLAB, OrCAD PSpice Designer, LabVIEW, Maccor, Arbin, and Microsoft Office.

JOSH BROWN // ELECTRICAL ENGINEER

Josh is a recent graduate of the University of Toledo, where he earned a Bachelor of Science in Electrical Engineering Technology with a concentration in mechanical engineering. His technical skills include AutoCAD, MATLAB, PLC (AB, Siemens), and Microsoft Office.



KEVIN MUNGUIA // ELECTRICAL ENGINEER

Kevin is a graduate of Cleveland State University, where he earned a Bachelor of Science in Electrical Engineering. His experience includes performing simulations of power transmission and distribution in PowerWorld Simulator; circuit analysis using Cadence PSpice for amplifier circuits and power electronic circuits; implementing digital logic circuits with either schematics of VHDL using Intel Quartus software and an FPGA; modeling parameters for PID control of a torsional plant using MATLAB and Simulink; ladder logic programming experience using RSLogix 5000 Software and an Allen-Bradley Logix 5000 PLC; programming experience in LabVIEW using a National Instruments USRP device; and creating orthographic drawings in AutoCAD.

R.E. WARNER RECOGNIZED IN CRAIN'S 2020 BOOK OF LISTS

Ranked by number of local registered engineers:

- 12 Registered Local Engineers
- 19 All Local Engineers
- 40 Total Local Staff

2019 Engineering Billings: $7M

Notable 2019 Projects

- Energy Planning and Protection Support
- Rolling Mill Structural & Merchant Capacity Expansion
- City of Cleveland City Wide Pool Improvements
- Detailed Engineering for New Roughing Stands
- Maintenance Building Expansion
- Manufacturing Building Expansion
- Installation of a New Ecoat Drum/Tote Filling Facility
- Ohio Veterans Home Substation and Chiller Renovations
- Design for Additional Material Services Docks
- Q Arena Construction Layout Services
- Cuyahoga Community College Metro Campus Plaza Renovations

OUR MISSION IS TO PROVIDE TECHNICAL SOLUTIONS THROUGH TEAMWORK AND A PASSION FOR SERVICE.

Since our founding in 1951, R.E. Warner & Associates, Inc. has experienced steady and continuous growth. Building on our traditional strengths and values, we have entered into new fields only when it is consistent with the basic mission of our company. Today, R.E. Warner is a full service, multi-discipline consulting firm serving both public and private clients.

We call ourselves multi-discipline because we offer professional services in civil, structural, mechanical, electrical and process engineering; architecture and planning; surveying; and environmental science and engineering.

Our impressive list of clients includes many of our nation's largest steel, automotive and chemical producers, electric power companies, health and educational facilities, and various agencies of the federal, state and local governments.

R.E. Warner's mission is to provide technical solutions through teamwork and a passion for service. Our areas of practice include buildings and facilities, industrial operations and process engineering, infrastructure, transportation, energy management, surveying, environmental and construction services.

In order to fulfill our mission to our clients, R.E. Warner consistently recruits, hires and retains the leaders in our profession. In recognition of our great workplace, R.E. Warner has been named a multi-year winner of the NorthCoast 99 Award, presented annually by the Employers Resource Council to the top 99 companies to work for in Northeast, Ohio.

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