

FormworkPress

Professional Formwork News

X/2023



Up to any challenge

MEVA provides formwork on battery plants – page 6

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Imprint

Site photos show situations which do not always depict the final assembly of formwork with regard to safety regulations. Imprint: Edition X/2023. Publisher: MEVA Schalungs-Systeme GmbH, Industriestr. 5, D-72221 Haiterbach. Layout: MEVA. Reprint and re-use of any editorial content only by copyright permission. We accept no liability for the content of external internet sites, nor for a violation of privacy or any other law arising from these.

“FormworkPress in print or digital form? Please give us your feedback and tell us what we can do better.”

Dear Reader,

For many years we have been regularly informing you about current events involving MEVA in our FormworkPress magazine. Normally you are able to hold the magazine in paper form. That has now changed. As of this issue we are relying exclusively on a digital version – first of all on a trial basis.

The decision to dispense with the traditional printed edition was given careful thought. On the one hand, it was a difficult decision because we were breaking with a long-standing tradition; on the other hand, we felt it is time for a change. By switching to digital, we are reflecting the transition in the media landscape over the past few years and are now putting the focus on sustainability and innovation. By abandoning the print version, we are significantly reducing our ecological footprint, as the production of the paper, the printing and the delivery devour a great many natural resources. A further factor is topicality. The lead time of several weeks for production, individual packaging and shipping can be better utilized to present more up-to-date news and project reports. In addition, digitalization enables us to quickly reach people all over the world and to incorporate interactive elements and links.

We are convinced that this is the right way to go, but at the end of the day it is your opinion that

counts: print or digital? We would like to know whether and why you consider reading without paper important or, alternatively, why you prefer the haptic of paper and the smell of printing ink.

Please give us your feedback and at the same time, take this opportunity to tell us frankly what we can do to improve the content. Simply send an e-mail to marketing@meva.net or get in touch with your MEVA contact. I promise you that we will review every single response and try to offer you even better content and cater even better for your interests in the future. After all, at MEVA a longstanding and wise saying applies not only to our formwork systems and services but also to our communications with you: “A better version will always displace a simply good version.”

I wish you a pleasant read.




Florian F. Dinger,
Owner and Managing Director
of MEVA Schalungs-Systeme GmbH

7 questions
3 minutes
www.meva.net/survey





Higher degree of customization

Canadian's Maple Reinders chooses MevaLite and Imperial wall formwork systems

Maple Reinders, a renowned Canadian construction company, recently made the decision to choose MEVA Formwork Systems to supply their forming and shoring needs on the Dalhousie Wastewater Treatment Plant, located in the picturesque Niagara Region of Ontario, Canada. Choosing MEVA highlights Maple Reinders' commitment to provide safety, efficiency and sustainability while building concrete structures for their infrastructure projects.

Maple Reinders was founded over 55 years ago by Fred J. Reinders, in the basement of his house in Etobicoke, Ontario. His vision was to apply sound engineering principles to the design and construction of every project the company undertook and to manage the process with scrutiny for every possible detail. In his words: "By doing so, we could offer value – real value – for money. And we could create things of lasting value." The company has grown to become an award-winning construction services provider with over 425 professional staff,

providing creative solutions in ICI buildings and environmental construction.

The decision to use both MevaLite and the Imperial formwork systems on the same jobsite was based on a comprehensive evaluation of the forming needs required for each structure. A focal point in the design process was the modularity of both systems and the variety of accessories.

"A lot of what we do demands customized geometric structures. By using MEVA, we encounter far fewer obstacles because of the design efficiencies, which really allows us to build structures with a higher degree of customization on the jobsite," said Darren Slaa, Project Foreman. "There is always a workaround for everything. But it is different when we have the confidence when pouring concrete in walls of this magnitude."



Left: 12'-0 x 8'-0 Imperial panels reduced the number of joints. Middle and right: Tables using the MEP aluminum shoring system were simply moved from pour to pour.

After the walls were poured, the contractor had to build elevated concrete slabs that reached a height of 6 m or 20'-0. To increase safety and to save labor, MEVA designed tables using the MEP aluminum shoring system. Once erected, the tables were then moved from pour to pour using the MEP trucks.

Trevor Speers, who was the Project Manager for the Port Dalhousie Project, recommended using MEVA because of his firsthand experience of using Imperial, which offers a higher pour rating and reduced number of ties. The Imperial system features the 12'-0 x 8'-0 crane-set panels and reduces the number of joints, resulting in a better concrete finish. MevaLite was employed as a handset form in the areas where crane access was limited.

It was truly an honor for MEVA to be selected for Maple Reinders' first self-performing concrete division job, and we look forward to providing unique solutions in the future.

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Project data

- **Project**
 - Port Dalhousie Wastewater Treatment Plant, St. Catharines, ON/Canada
- **Contractor**
 - Maple Reinders, Mississauga, ON/Canada
- **MEVA systems**
 - Imperial wall formwork
 - MevaLite wall formwork
 - MEP shoring system
- **Engineering and support**
 - MEVA Formwork Systems, Springfield OH/USA

Up to any challenge

MEVA provides formwork on battery plants throughout the United States

Innovation is the key to growth. It is therefore important to adapt to changing market conditions. A perfect example is the Electronic Vehicle (EV) market, which in 2011 commanded less than 1% of all sales in the automotive industry. By 2021, the EV market had grown to 4.6% and is projected to rise to 50% of all vehicles sold in the United States by 2030.

Companies like Tesla, Ford, GM, BMW, and Mercedes are now battling for the rapidly expanding market share for electric vehicles. As part of the manufacturing process for EVs, the construction of battery plants is now becoming a critical link in the supply chain.

In the last three years, MEVA has provided formwork on the following battery plants that have broken ground:



- **Ultium Cell One: Lordstown, Ohio**
- **Ultium Cell Two: Springhill, Tennessee**
- **Ultium Cell Three: Lansing, Michigan**
- **Ford Blue Oval Bosk (Blue Oval South Korea): Glendale, Kentucky – all completed by Barton Malow, located in Southfield, Michigan**
- **Lake Orion Battery Plant: Lake Orion, Michigan – completed by Walbridge, located in Detroit, Michigan**
- **Envision AESC Japanese Electric Vehicle Battery Company – completed by Jayton Construction, located in Burlison, Tennessee**
- **Ford Blue Oval City: Staton, Tennessee – completed by a Joint Venture with Walbridge and Fessler & Bowman, both located in Michigan**

Each battery plant included similar mass concrete foundation mat slabs, which typically exceeded 400 cubic yards of concrete in a single pour. The challenge for MEVA was how to form up massive mat slabs by reducing or eliminating the ties typically required to support the formwork. As a solution, MEVA proposed using MevaLite along with the SK150 or BB80 bracket. The SK150 allowed our contractors to pour in excess of 5 ft. of mass concrete without ties.

By removing the ties, the contractors were able to avoid the cost of lost ties and the labor required to install them into the mat slab.

We would like to thank our customers who selected MEVA to work together on the battery plants and we look forward to meeting their needs on future industrial projects.





The tradition continues

Lithko Contracting and MEVA partner on a University Campus project



Lithko Contracting, ranked number two by ENR's list of Top Concrete Contractors, has been awarded the new Park-Harrison Student Housing project located on The Ohio State University's campus.

According to the Columbus Dispatch newspaper, the project will replace the 54-year-old Harrison House apartment building located at 222 W. Lane Ave. The project will include five buildings and feature 361 apartments providing housing for 700 students. Also included is a new 426-space parking garage.

The project's standout feature was the towering columns, reaching an impressive height of 30 feet. Due to the columns' unique dimensions, Lithko utilized the MevaLite formwork in an outside corner and windmill configuration. This process required minimal assembly of parts, while highlighting MevaLite's versatility. The ramp walls and rainwater detention basin were also formed with MevaLite.



To construct the perimeter walls, Lithko relied on the trusted Imperial formwork. This system provided exceptional strength and stability when pouring the exterior walls. Additionally, Triplex bracing was designed and installed to brace the interior perimeter walls once the formwork was removed. This enabled Lithko to safely backfill against the interior walls before the first elevated slab was installed. Triplex bracing was used to support the crane pad located adjacent to the foundation walls.

Ash Boytar, Lithko Superintendent, expressed his preference for MEVA products due to their simplicity and effectiveness. The minimal number of parts and labor required streamlined the construction process and contributed to the project's overall success.

We wish Lithko continued success as they progress toward completion of their project by the end of 2023.

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Project data

- **Project**
 - Student Housing project, Ohio State University, Columbus, OH/USA
- **Contractor**
 - Lithko Contracting, LLC, Plain City, OH/USA
- **MEVA systems**
 - MevaLite wall formwork
 - Imperial wall formwork
 - Triplex heavy duty bracing system
- **Engineering and support**
 - MEVA Formwork Systems, Springfield OH/USA



Easy to erect and quick to strip

Precision Concrete chooses MEVA HN slab formwork

Founded in 1826, Furman University is recognized as the oldest private college located in the state of South Carolina. Furman University was named after Richard Furman, who was the first president of the South Carolina Baptist Convention, which first convened in 1814.

Even though Furman is the oldest private university in the state, it is rapidly transitioning into the future by reimagining and building a new first-year residence hall from the ground up. The facility will replace Blackwell Hall, which has served as a first-year student residence hall since 1967.

The new residence hall will be a cast-in-place, four-story concrete structure with a footprint of approximately 14,000 sq.ft. per floor. The flat plate design and consistent floor-to-floor heights presented a perfect opportunity to use the MEVA HN drophead system for supporting the elevated slabs. Because of the geometric design, some areas of the slab required MEP conventional shoring with an aluminum beam and stringer, which was used to support the trapezoidal areas.

Harper Corporation, the general contractor for the project, selected Precision Concrete to build the concrete structure. Founded in 1986 by Leonard J. Moniz, Jr, Precision Concrete has established a reputation as a high-quality place and finish concrete contractor and has achieved a listing as one of the Top 600 Specialty Contractors by ENR, as well as being ranked in the Top 100 by Concrete Construction magazine.

When asked why they selected MEVA and used the HN drophead shoring system, Greg Spone, General Superintendent for Precision cited the convenience of the MEVA Spartanburg, South Carolina location. Formwork Superintendent Abraham Ramirez pointed out that the system was easy to erect and thanks to the 7.5" drophead could be quickly stripped and moved to the next pour.

We would like to thank Precision Concrete once again for choosing to partner with MEVA on another concrete project.



Formwork Superintendent Abraham Ramirez is pleased with the 7.5" Drop the HN drophead system has to offer.



Left to right: Jeff Thomas, Sales Representative, Greg Spone, General Superintendent, and Abraham Ramirez, Formwork Superintendent.

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Project data

- **Project**
 - Residence Hall, Furman University, Greenville, SC/USA
- **Contractor**
 - Precision Concrete, Mauldin, SC/USA
- **MEVA systems**
 - MEVA HN drophead system
 - MEP shoring system
- **Engineering and support**
 - MEVA Formwork Systems, Spartanburg, SC/USA



MEVA Academy

The 2023 Training Program

The MEVA Academy Training Program is designed to offer a multifaceted learning experience, combining theoretical knowledge with hands-on practical training. This approach ensures that participants gain a comprehensive understanding of MEVA's product offerings and their applications in real-world construction scenarios.

New trainees that complete the Academy are presented with the opportunity to pursue a career in either Sales or Engineering. As part of the curriculum, each trainee will learn every aspect of the MEVA operation. One of the key aspects of the Academy Training Program is to focus on best engineering practices.

MEVA USA's Academy Training Program is not solely about imparting knowledge; it is also centered around cultivating personal and professional



growth. The six-month training program fosters a collaborative learning environment where participants can exchange ideas, share experiences, and learn from industry experts.

The inaugural class includes Chris (Champ) Hampton, Doug Dillin, Anastasia Lee, Madison Romeiser, Eric Sultzman and Eric Fornell in the Academy Program. These individuals represent the future of MEVA USA and embody the company's commitment to excellence and our vision of expansion. Through this comprehensive training program, they will dive deep into the world of MEVA formwork and shoring products and procedures, as well as the best engineering practices in the concrete construction industry.

We wish them continued success as they complete the curriculum in 2023.



News

Information about MEVA



Gulf: Hanson follows Farina

On 1 July 2023 Joe Farina handed over the management of MEVA Gulf to his successor Chris Hanson (photo left). Joe Farina was the managing director in the Persian Gulf for ten years and was pivotal to the success and expansion of the business in the region. This included the set-up of the new modern headquarters in the National Industries Park in Dubai in 2021 as well as the establishment of new branches in Qatar and Saudi Arabia. Since the construction of the Burj Khalifa, the tallest building in the world, using our MevaDec slab formwork, Joe Farina has built up a committed team. Today, solutions are offered in the entire Gulf region.

Joe Farina and his successor Chris Hanson had already been working closely together since the start of the year and were thus able to ensure a smooth transition. Chris Hanson has a great deal of experience of the industry in the Middle East. He will concentrate on expanding the regional activities with a focus on the Saudi Arabian market where the latest expansion of MEVA Gulf through a branch in Riyadh is already starting to bear fruit.



Focus on sustainability

"We are MEVA" is the title of the first Sustainability Report, which can be read online or downloaded from the company's homepage www.meva.net. More and more often, customers, partner companies and interest groups require this type of sustainability report because they want to achieve their own ambitious sustainability goals with the help of suitable suppliers.

The MEVA Sustainability Report 2023 describes the measures taken by our group with regard to sustainable economic activities and practices. Its purpose is to enable all interested parties to get a closer insight into MEVA as a company. The document is available in German and English and will be updated and augmented on an annual basis as required.

MEVA is oriented toward the 17 Sustainable Development Goals (SDGs) that were agreed by the United Nations (UN) in the 2030 Agenda for Sustainable Development. Corresponding icons in the report mark our commitment to fair standards and climate protection and against injustice worldwide.



MEVA in São Paulo and Nairobi

In cooperation with our local partner Europa Infrastructure Technologies, MEVA took part in the Buildexpo Kenya at the exhibition grounds in the capital Nairobi for the first time. The economic and user-friendly products MevaFlex, MonoDec, and MonoFix, in particular, aroused a great deal of interest. Thus, new contacts in the exciting East African market were established, primarily with principals who are responsible for affordable residential development projects in Kenya and Uganda.

In August MEVA returned to Brazil after a long absence as an exhibitor at Concrete Show 2023 in São Paulo. MEVA took part in this trade fair up to 2002, and even after a 20-year absence was still a well-known brand and a supplier of top-quality products and services for a large number of visitors to the trade fair. This was reflected in numerous discussions and extensive positive feedback. The formwork systems MonoFix and EcoFix in particular aroused a great deal of interest. The MEVA team on the spot was thrilled by the atmosphere in the São Paulo Expo Exhibition & Convention Center and the visitors to the exhibition.

Planning, pizza and processes

Every summer, the trainees at MEVA have the chance to attend a three-day seminar on personal development and strengthening team spirit. They are also able to directly influence the content and the meals themselves. Under the guidance of an external seminar leader and after intensive preparations, 13 trainees got together this year at a recreational facility in the Black Forest.

By working together for both theoretical and the practical exercises, team and communication skills were practised and improved. One of the highlights was beer brewing with ingredients that the trainees gathered themselves, for example nettles and dandelions. This was a task that required optimum planning, teamwork and good time management.

Additional challenges were mastered relating to this year's main theme of "Strategy". A model of MEVA's corporate structure made the interrelationships between the business processes clear for the career starters. Strategies for the future were developed in the team. And of course, social activities didn't take a back seat, either. The trainees cooked for themselves in a cosy atmosphere, and an evening BBQ gave the trainees the chance to get to know each other better.

You can rely on us wherever you are.

With 40 offices on 5 continents, we are
on the spot wherever you need us.

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