

## SUBURBAN LANE GETS REBUILD USING WIRTGEN MILL, STABILIZER

Road widening with a Wirtgen W 1900, and cement and asphalt emulsion stabilization using a Wirtgen WR 2500 S and Hamm 3412P padfoot roller has given new life to a failing country lane that's been incorporated into a growing suburban section of Marysville, Ohio.

Boerger Road was annexed by the City of Marysville, Ohio, and has been the focus for construction of handsome suburban houses adjacent to a golf course.

"It was a country road, but there's been a lot of development here in the last 7 to 10 years," said Tim Amling, vice president, BASE Construction Co., Ltd., Columbus, Ohio. "New housing, sewer, water and other infrastructure development had caused a lot of problems with the road, particularly construction truck traffic."



*Hamm HD 120 roller provides finish compaction for local traffic on reclaimed road base*

### Widen Before Stabilization

In addition to the pavement's condition, the city wanted to widen the road from 19 and 20 ft. wide with ragged edges, to 22 ft., for a distance of nearly 6,500 ft.

"We widened the road out with our Wirtgen W 1900 cold mill with 2 ft. milling head, taking 2 ft. on either

*Cover story continued on Page 3*

## PRESIDENT'S MESSAGE

*By Thomas M. Lyden, PE*

*Highway Management Administrator  
Ohio Department of Transportation, District Six*

Who in your office is responsible for planning meetings and events, purchasing office equipment and supplies, monitoring the budget, creating presentations, answering questions from and relaying information to staff, writing and editing documents, compiling data, maintaining schedules, and answering inquiries?

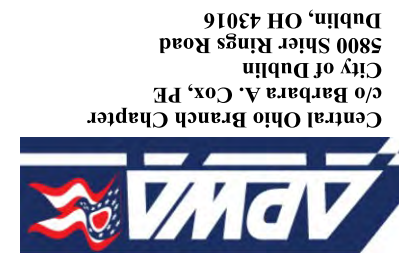
Most of you likely answered "my administrative professional." Kristine and Karen are an invaluable resource to me in performing all and more of the above duties. During the last two years, they've supported you through their contributions to APWA – all without having their names on the letterhead!

Administrative Professionals Week was created to recognize the contributions of office support staff. This year's theme, "Forward Moving" highlights how administrative professionals are positioning themselves for success in today's business environment by mastering technology, honing communications skills, and forging collaborative relationships with managers and coworkers.

Administrative Professionals Week has become one of the largest workplace observances. Today, there are more than 3.9 million administrative assistants working in the U.S., according to U.S. Department of Labor statistics, and 8.9 million people working in various administrative support roles.

The International Association of Administrative Professionals (IAAP) suggests employers observe the week by providing training for their administrative staff through seminars, continuing education, or attainment of professional certification. In a recent survey, IAAP members indicated their greatest training needs were in computer software and technology applications, supervisory/management skills, project management, and public speaking/ presentation skills.

At the Central Ohio Branch of APWA, we celebrate our administrative professionals by inviting them to join us at our luncheon (see details on the next page). Please take time to thank your administrative professional for their contribution and dedication.



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### Moving? New Job? E-Mail Change?

To update your contact information, follow these simple instructions:

1. Go to [www.apwa.net](http://www.apwa.net);
2. In the upper left corner of the home page, click on "Members Only";
3. Log in by completing the appropriate boxes with your username and password, then click login; (Note: If you have never logged onto this site before, click on the button entitled, "Create a FREE Account" and follow directions.)
4. Click on "Member Tools";
5. Click on "Update Contact Information";
6. Make any changes that you wish in the various boxes and then click "SUBMIT" at the bottom. The National website will automatically send your changes to the Central Ohio branch.

## JOIN US FOR THE NEXT APWA LUNCHEON:

**When:** Thursday, April 24, 2008

**Time:** 11:30 a.m. Registration  
12:00 noon Lunch

**Where:** The Blackwell (on the OSU campus)  
2110 Tuttle Park Place, Columbus OH

**Valet:** Parking vouchers will be provided to attendees

**Cost:** \$ 15.00 in advance, \$ 25.00 at the door

**Speaker:** Dr. Carolyn J. Merry, Professor and Chair,  
Civil & Environmental Engineering & Geodetic Science

**Topic:** **Civil engineering student project activities at OSU.**  
Dr. Carolyn Merry will give an overview of the various team projects that the OSU civil engineering students work on every year. A few examples include building and racing concrete canoes, building and testing timber and steel bridges, and removing arsenic from drinking water supplies in Honduras. These team projects improve leadership, teamwork and communication skills that are essential for our next generation of civil engineers.



**Menu:** Please choose one when registering:  
(1) Honey Lavender Chicken: boneless chicken breast glazed with honey and lavender, served with jasmine rice and a rich chicken glaze. (2) Sliced Roast Beef: herb marinated slow roasted sliced beef served with rosemary au jus. (3) Spinach Linguini: saffron cream sauce with roasted red peppers, grilled yellow squash and Parmesan cheese.

**Registration:** Roberta Brant, 64 E. Walnut Street, Westerville, OH 43081, 614-901-6676, Roberta.Brant@westerville.org  
**Payment:** Cash, Check payable to "Central Ohio Branch Chapter of APWA," or credit cards will be accepted at the luncheon  
**Registration deadline: Friday, April 18, 2008**

## APWA Municipal Forum

May 20, 2008

**Please join us for a day of education and information sharing!**

**Location:** City of Columbus Training Facilities  
1881 East 25<sup>th</sup> Avenue, Room A, Columbus, OH

**Cost:** (includes presentations and handouts, morning and break refreshments, and lunch)  
**\$ 50.00 AM only / \$ 50.00 PM only / \$ 75.00 all day**

**Registration Deadline: Friday, May 9, 2008**

**For registration, additional information or questions, contact** Susan Banbury, 614-901-6665, or susan.banbury@westerville.org.

### Schedule of Events:

7:30–8:00 AM Registration for AM & All-Day Session

8:00–9:15 AM **Hydrological Design with Pervious Concrete – A Stormwater Management System**, Mark Pardi, Director of Ohio Concrete (Central & Southeast Region), Ohio Ready Mix Concrete Assoc., This presentation will introduce the Hydrological design software for stormwater detention with pervious concrete. This pavement technology is effective in recharging aquifers, reducing the heat island effect, reducing the stormwater runoff and controlling the first flush pollutants from reaching local watersheds. Pervious concrete is an effective U.S EPA, Best Management Practice for stormwater management and will help achieve LEED® credits.

9:15–10:15 AM **Rain Gardens**, Stephanie Suter, Habitat Conservationist Franklin Soil & Water Conservation District

This presentation will provide a brief overview of rain gardens and how they work; details on the assessment, design, excavation, planting, and maintenance process; and local and regional examples of rain garden installations.

10:30 AM – 12:00 PM **Full-Depth Pavement Reclamation**, Todd Casey, Operations Manager

*Base Construction Co., Ltd.*

This presentation will provide an overview of road recycling processes available for pavement maintenance with the primary focus on full depth reclamation (FDR). Illustrative examples will outline why, when & where FDR should be used & cost effectiveness.

12–1:00 PM Lunch & Registration for PM Session

1–5:00 PM **Horizontal Directional Drilling – Guidelines to Good Drilling Practices**, Ohio Horizontal Directional Drilling Association

This presentation will include the proper selection and use of drilling fluids, utility locating and the importance of proper tooling for horizontal directional drilling projects.

**Continuing Education Credits** – By participating you can earn up to six (6) professional development hours; three (3) for the AM session and three (3) for the PM session. Certificates of completion will be provided for your records.

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## 2009 APWA INTERNATIONAL CONGRESS & EXPO COMES TO COLUMBUS

APWA members from across the globe will be heading to town for the 2009 International Public Works Congress and Exposition at the Columbus Convention Center, September 13-16, 2009.

This is an excellent opportunity to share your knowledge and experience with others from around the world at a technical session.

- Share lessons learned
- "How we did it" case studies
- Strategies for addressing emerging trends
- A recent project with a unique approach
- Solutions that resulted in satisfied stakeholders

This is a chance to showcase projects and solutions from around Ohio. Also, this is an opportunity to increase your professional visibility among your peers and promote your work. Stay tuned to the national APWA website (<http://www.apwa.net>) for on-line submissions details for abstracts.

**Submission deadline will be Sept. 30, 2008.**

There are other opportunities for you to participate:

**For sponsorships** contact Chuck Zibbel at (440) 354-9700, ext. 206 or email at [czibbel@burnip.com](mailto:czibbel@burnip.com).

**For volunteering** contact Phillis Fuller Clippis at (216) 664-2371 or email at [pfullerclippis@city.cleveland.oh.us](mailto:pfullerclippis@city.cleveland.oh.us).

**For booth space** contact National APWA by visiting [www.apwa.net](http://www.apwa.net).

**Mark your calendar:**

**APWA State Conference**  
June 10-12, 2008  
Eastlake, Ohio

*Need Additional APWA Information?*

**Visit your local branch online:**

**<http://ohio.apwa.net>**

**or the national organization at:**

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Cover Story continued...

side,” Amling said, “taking a foot from the edge of the pavement and a foot from the shoulder. We disposed of the material off-site, and then the existing pavement was pulverized with the WR 2500 S with the material bladed over into the new widened areas, regraded and compacted.” Then BASE Construction returned to stabilize the 22-ft. width prior to a 3 in. hot mix asphalt overlay in two lifts by project prime contractor, The Shelly Companies.

BASE was able to use a 2 ft. cutter because the W 1900 features the optional Flexible Cutter System (FCS), which enables quick-change of cutter drums. “In season we change the drums a couple of times a week,” said Dorrian Amling, manager, field operations, for BASE. “We can change a 2 ft. to 4 ft. drum in a couple of hours, and that’s certainly acceptable to us.”

When visited, BASE was repulverizing the road one last time before full stabilization the next day. “We are getting rid of some of the bigger chunks we kicked out yesterday, and getting the road to what will be the final grade,” Amling said. “We need to crush those chunks to get the final gradation.”

The large pieces were the legacy of years of patching. “Base conditions were determined through cores,” said Dorrian Amling. “They gave us a good representation of what was beneath. However, the city’s done a lot of patching on the edges over the years and that resulted in areas with as much as 12 to 15 inches of asphalt. Also, years ago a sanitary sewer was constructed down the road, and the trucks pretty much destroyed the pavement, and the city’s been patching it ever since. These explain why we’ve been encountering such large pieces.”



Dorrian (left) and Tim Amling of BASE Construction. The Amlings are serious about road reclamation, as their license plate shows.

The blade on the Hamm 3412P complemented the motor grader as the roller compacted the repulverized material. “We use it to pull small windrows down as we compact it to provide a good driving surface that traffic can run on today, before we start our stabilization tomorrow with cement and asphalt emulsion,” Tim Amling said.

### ***Stabilizing With Cement, Emulsion***

The next day BASE would return with cement and emulsion, putting the WR 2500 S back to work. “We

will return with the spreader truck placing Type I portland cement in a dust-free operation,” said Tim Amling. “As it’s mixed in we will add emulsion at a rate determined by the mix design.”

The emulsion used was a high-float recycling emulsion (HFRE) from Asphalt Materials Co.’s Marion, Ohio plant. “We’ve used it for the past 10 years and have been very happy with way it’s worked for our soils and aggregates,” Amling said. “The emulsion will be controlled through the computerized system on the WR 2500 S. We’ll push a 6,000-gal. asphalt tanker with the machine and the emulsion will be applied through the spray bar in the machine.”

The mix design called for called for stabilizing 8 in. deep, with 2 percent cement, and 1.5 percent of HFRE emulsion. The machine BASE used on Boerger Road was one of three WR 2500s that the firm owns, in addition to the W 1900 and a W 2000. The base will be compacted to 97 to 98 percent of density.

Marysville is home to Scotts Miracle-Gro Company, and with such an emphasis on lawns and gardens, there is a strong environmental consciousness in the community that full-depth recycling blends well with.

“They say, In summer, the grass is greener in Marysville,” Tim Amling said. “Certainly the ability to recycle what’s in the roadway and keep it out of a landfill is a huge benefit for the community.



WR 2500 S and Hamm 3412P mix, compact Marysville, Ohio road.

“Full-depth recycling is becoming more popular, and as we speak with elected officials about it, they see the life-cycle cost advantages to full-depth versus a simple asphalt overlay,” he added. “There are places for simple overlays, but in some cases, such as this road, the only way to really fix it right is from the ground up. And often, the materials in the road are better than the ones you can buy today. Being able to reuse those materials is a tremendous advantage for the taxpayers and motoring public.”

Article and photography courtesy Wirtgen America, Inc.