



July 2014

Volume 8, Issue 3

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LDDI Bridges

is a publication of Virginia Tech's *Land Development Design Initiative*

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Summer greetings from the campus of Virginia Tech! Temperatures are up and a quiet, summertime feel has descended on our beautiful campus. In just over a month, though, Blacksburg and the Virginia Tech campus will be abuzz with the excitement of a new academic year.

LDDI's Practitioner Involvement Committee is already planning numerous events for the fall semester, and our Course and Curriculum committee is preparing for the fall course offerings. This fall, I will be teaching CEE 4274 – Land Development Design and CEE 4264 – Sustainable Land Development. LDDI Assistant Coordinator Kevin Young will be teaching CEE 3274 – Introduction to Land Development and CEE 2814 – CEE Measurements. It promises to be another exciting (and busy) semester!

On July 18th, LDDI will be hosting its annual summer meeting in Richmond. This is the first meeting of LDDI's general membership since our January 2014 meeting in Reston. These semiannual meetings provide an opportunity for the LDDI Advisory Board to update our industry partners on program activities, as well as opportunities for practitioners to get involved both inside and outside of the classroom. This summer's meeting will feature a presentation from DEQ on Virginia's new stormwater management regulations, including a case study. Attendees will be awarded two PDH credits.

I hope you will enjoy reading this edition of our newsletter and learning more about the people and companies that enable LDDI and Virginia Tech to offer the most comprehensive land development curriculum in the entire country. As always, I welcome your feedback on how we can continue to build LDDI!

Dr. Randy Dymond, PE, VT LDDI Coordinator

Land Development Design (4274)

by Kevin Young

CEE 4274 - Land Development Design remains a tremendously popular course offering in the Via Department of Civil & Environmental Engineering, and the spring 2014 semester saw the course at its maximum enrollment of 40 students for the first time since 2007! Beginning in the fall 2006 semester, and facilitated through LDDI, students taking CEE 4274 have been paired with at least one engineer from an LDDI sponsoring firm, who serves as their mentor throughout the entirety of a semester-long design project. LDDI would like to thank the individuals from the following firms for their time and energy to serve as mentors to CEE 4274 students during the 2013-2014 academic year:



A student design team mentored by AES Consulting Engineers present their final design project.

- AES Consulting Engineers
- Bohler Engineering
- Bowman Consulting Group
- Burgess & Niple
- christopher consultants
- Clark Nexsen

- Draper Aden Associates
- Gordon Associates
- Kimley-Horn & Associates
- Rinker Design Associates
- Tri-Tek Engineering
- Youngblood, Tyler & Associates



“Whether approaching a new assignment in school or a new design project at work, don’t be afraid to ask questions. People expect this, and most are more than happy to share their knowledge and expertise.” - Trevor Johnson, Rinker Design Associates Project Engineer

LDDI Graduates in the Industry: Trevor Johnson

Rinker Design Associates Project Engineer

by Kelly Shayne Young

After graduating from Virginia Tech in May 2012 with a B.S. in civil engineering, Trevor Johnson chose to head to the northern part of the commonwealth to foster his career in land development. The Alexandria, Va. native currently serves as a project engineer in Rinker Design Associates, P.C.’s (RDA) Manassas, Va. office.

While a student, Trevor took advantage of many of LDDI’s course offerings, namely Intro to Land Development, Land Development Design, Sustainable Land Development, and Municipal Engineering. “These courses prepared me for everything I would experience as an intern and as an entry-level engineer,” Trevor explains. “They gave me a solid platform upon which to build, as well as an overview of the industry and the issues facing today’s engineers and planners.” Trevor believes that the LDDI program is extremely valuable because “students are

exposed to real world design challenges while in an academic environment where creativity is encouraged and learning is the primary objective.”

Since joining RDA, Trevor has enjoyed the challenge of transitioning from student to practitioner and has realized the importance of technical, organizational, and interpersonal skills. He has had the opportunity to work on a variety of projects, including a large data center development and several school additions. “Working on a design from start to finish has been very rewarding,” says Trevor, “and I can’t wait to drive by a project after it’s constructed.”

When he is not at work, Trevor stays busy; he enjoys Virginia Tech sports, basketball, crossfit, football, snowboarding, and travelling. He is also training to become a Fairfax City volunteer fire fighter.



“LDDI’s specialized curriculum and networking opportunities provide significant advantages to students interested in a career in land development.” - Jessica Hekl, LDDI Advisory Board Student Representative

Who We Are: Jessica Hekl – AB Student Representative

Each issue of *LDDI Bridges* focuses on Advisory Board members who make LDDI happen.

Jessica earned her B.S. in civil engineering from Virginia Tech in 2013 and plans to finish her M.S. in Spring 2015.

What is your planned specialty within the civil engineering field?

Land Development and Water Resources.

What attracts you to land development?

No project is exactly the same. Each one has its own unique issues to solve and design criteria to meet. I also love the idea that you are able to see and maybe even experience the direct impact of something that you design in your everyday life.

Please mention the highlights of your academic career?

Graduating in the top 5 of my civil engineering class and receiving the Via fellowship for my master’s degree.

What motivated you to become involved with LDDI?

I was president of the Sustainable Land Development Club as an undergraduate, which made me more familiar with how great the LDDI program is.

What do you think are the strengths of this program?

LDDI provides the best career networking opportunities for students interested in land development. The practitioner involvement in the LDDI classes really gives the students a good idea of what a career in land development would be like.

Could you please share a few of your personal hobbies and/or interests?

I thoroughly enjoy snowboarding, waterskiing, and all sorts of outdoor adventures.

Please share something unique about yourself.

I recently got certified to be a fitness instructor. One day I will offer extra credit to my students if they come to my gym class (of course, if Randy and Kevin say it is okay).

Bohler Engineering Lends Services to D.C. Neighborhood Revitalization

edited by Kelly Shayne Young

The Capitol Riverfront, a 500 acre neighborhood north of the U.S. Capitol in Washington, DC, continues its impressive revitalization process with the addition of The Riverfront on the Anacostia development project. Florida Rock Development and MRP Realty will develop the first two phases of the multi-phased planned unit development as a joint venture. Bohler Engineering was contracted by MRP Realty to provide site civil engineering design, permitting services, and land surveying for the project.

The 5.8-acre site located on the banks of the Anacostia River, just south of

National's Park, is one of the few waterfront development sites in the District. The project includes 1.1 million SF of residential, commercial and retail space and will be designed to achieve LEED certification. Phase I will include a 321-unit, 281,000 SF high-rise apartment building, 20,000 SF of ground floor retail, a public plaza, water promenade, and a variety of recreational uses. The Riverfront will also include 286 parking spaces in two levels of below grade parking. Phase I is scheduled to break ground in the summer of 2014 with a projected delivery of summer 2016.



The Riverfront on the Anacostia development, located in Washington, D.C.'s Capitol Riverfront neighborhood, will consist of 5.8 acres of waterfront residential, commercial, and retail space.

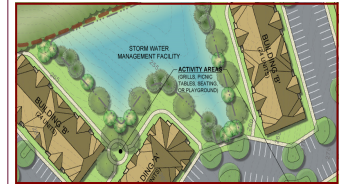
AES Designs Residential Development in Chesterfield County

edited by Kelly Shayne Young

AES Consulting Engineers (AES) provided civil site design services for Oxygen at CenterPointe, a multifamily development located in Chesterfield County, Virginia. Working for Robinson Development, AES provided civil site design, surveying, utility layout design, parking lot and roadway design, stormwater management design, landscape architecture, and lighting design. Led by the firm's Richmond office manager, Eddie Glass, P.E., the AES team worked to provide a 17.8-acre site design featuring 255 apartment units in 11 buildings, 7 garages, a clubhouse, a swimming pool, and 522 parking spaces. The site also features a large BMP and ample green space.

Along with Project Manager, Kirk

Hawley, P.E. and Senior Designer, Frank Giardinia, a number of Virginia Tech alumni contributed to the project. Greg Delano, L.S. (VT 1991) managed all field data collection and site survey services. Gavin Robey, L.A. (VT 2004) provided land planning support and landscape architecture services resulting in seating and lounge areas, a dog run area, and interconnected sidewalks throughout the site. Mr. Glass (VT 1982) continues to work with the client and Chesterfield County as onsite construction continues. This project also served as an opportunity for newly-hired Virginia Tech LDDI alumni Sam Casteguay (VT 2013) and Robert Atkinson (VT 2011) to learn the many facets of multifamily site design.



Oxygen at CenterPointe is a 17.8-acre multifamily development located in Chesterfield County, Virginia.

Municipal Engineering Course Sees Changes in 2014

by Kevin Young

CEE 4254 – Municipal Engineering is offered during the spring semester of alternating years, and was taught during this past 2014 spring semester. Meredith Jones (Virginia Tech Adjunct Instructional Professor and Owner of MJ Services, Inc.) taught the course for her first time and had an enrollment of 48 students – an all-time high for the course! Meredith was assisted in course organization and design by James Patteson (Fairfax County Director of Public Works and Environmental Services) and Randy Dymond (LDDI Coordinator). The course focused on familiarizing students with the role of the municipal engineer, and the important relationship that exists between municipal engineers and the land development industry. The course included 15 guest speakers and 12 municipal engineering mentors who worked directly with students on projects. We wish to thank all of the industry professionals who gave selflessly of their time to make the course a success. Municipal Engineering will next be offered in the spring of 2016.

Thank you

to our corporate sponsors and individual donors— July 2014

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LDDI Bridges July 2014

2013-2014 Financial Summary

by Kevin Young

During the 2013-2014 fiscal year, LDDI collected revenue of approximately \$137,000 through its corporate sponsorship program and individual donor campaign. This figure is greater than revenue collected during our previous fiscal year, and is a result of our greatest number of corporate sponsors to date. These funds were used to directly support LDDI activities inside and outside of the classroom. The following describes some of LDDI's major expense categories to which this revenue was directed.

- *Instructor Compensation:* Of the seven LDDI courses offered each year at Virginia Tech, the University provides financial support for only three. Private donations to LDDI provide instructor compensation for the remaining four.

- *Program Expenses:* Program expenses include support for LDDI's student club, including field trips, travel to service project locations, and social gatherings. This expense category also includes event catering for LDDI general membership and outreach meetings, publication of the *LDDI Bridges* quarterly newsletter, and past funding of the LDDI student internship program.

- *Operations Expenses:* Operations expenses include general overhead costs such as postage, printing and copying, website development and maintenance, telecommunications, and University Foundation fees.

- *Travel and Meetings:* LDDI has traditionally hosted two general membership meetings each year. Outreach efforts such as these comprise a critical part of LDDI's efforts to ensure continued practitioner participation in the program.

- *Student Support:* Though none were awarded this past academic year, to date, LDDI has administered a total of ten \$2,000 scholarships. Eligibility for these scholarships is restricted to students who have completed or are enrolled in certain LDDI courses. This expense category also provides for a total of 10 high performance "loaner" computers that are made available to student design teams in CEE 4274 – Land Development Design .

The financial contributions of our business partners and individual donors are vital to the success of LDDI. We thank all of our corporate sponsors and individual donors for their generous giving during our 2013-14 fiscal year.

Second Annual Newsletter Vacation Challenge

by Kevin Young



LDDI Advisory Board member Bob Jansen displays the LDDI Newsletter in front of Victoria Falls.

Just a reminder to get your submittals in for the second annual LDDI Newsletter Vacation Challenge! Last summer, LDDI held this contest for the first time. The rules were simple: take a printed copy of the LDDI newsletter with you on your summer vacation and send us a photo of you holding it. Frank Beamer autographed footballs were given for the most creative photo and the one taken the furthest distance from Blacksburg. Last year, Caleb Hurst (Clark Nexsen) and Bob Jansen (Jansen Land Consulting) won with submittals taken underwater and from Victoria Falls, Zimbabwe, respectively. To enter this year's contest send a picture of you holding this newsletter to keyoung@vt.edu prior to August 31st. We will once again be awarding two prizes for creativity and distance from the Virginia Tech campus.