

Indiana Section ASCE



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Indiana Civil Engineer

American Society of Civil Engineers

February 2006

Mark Your Calendars Now !!

Annual Meeting Set for March 21 Site: Fountains Banquet & Conference Center - Indy

**Report by: David P. Devine, P.E.
Vice President & Annual Meeting Chair**



Planning for the 2006 Indiana Section Annual Meeting continues. The Annual Meeting will be held on Tuesday March 21, 2006 at The Fountains in Carmel, Indiana. The key note speaker will be Mr. Tom Sharp, Commissioner of the Indiana Department of Transportation. He will discuss INDOT and the progress of that organization over the past year under his leadership.

The annual meeting agenda is being finalized. Technical sessions are planned for transportation, geotechnical, structural, environmental, hydraulics, and tools of the trade and business topics. Technical session presenters on the agenda include: Mr. Randall Over of the Ohio Department of Transportation will present about ODOT's local project administration process, Mr. Rick Rhodes, Vice-President, Anthem Blue Cross and Blue Shield will present on the topic of health savings accounts, Mr. Dan Liotti of Midwest Mole discussing trenchless installation methods, Dr. Tommy Nantung of INDOT discussing concrete deterioration, and Mr. Ken Herceg discussing his

involvement with hurricane relief efforts through ASCE.

Additional presenters are being confirmed covering the topics of the (Hydraulics) Memorandum of Understanding between INDR & INDOT, I-69 from Indianapolis to Evansville, Emergency Response, Continuing Education, and Business Management. Mr. Brad Bobich will run the Student Design Competition. ASCE Student Chapters in Indiana have received

many awards in the past year including Rose Hulman winning the prestigious ASCE Ridgway Award for best student chapter and Evansville placing very high in the concrete canoe competition.

The year's annual meeting will also include the first release of the Report Card for Indiana's Infrastructure. A press release will be made for some media coverage. The Indiana Section received a State Public Affairs Grant (SPAG) from ASCE to prepare and release this report. Following the success from last year's Annual Meeting, an Order of the Engineer ceremony is also planned. An additional registration form is needed to participate in this ceremony and receive a ring and all attendees are encouraged to observe the ceremony. A registration form insert is included in this newsletter.

The exhibitor's room will include several companies along with information about products and services available to civil engineers. Immediately following the afternoon reception, a drawing will be held for door prizes given to those who visit all of the exhibitors.



2005 Indiana Civil Engineering Project of the Year:
I-70 "Fast Track" Interstate relocation project at the
Indianapolis International Airport.

!! See Meeting Agenda and Registration Forms on Pages 5 & 6 !!

Section President's Message

by Theresa E. Harrison, P.E.

Greetings to All! I am writing this just 2 days before Christmas, and therefore my information by printing time might seem a bit old...however, I hope that your Holiday celebrations were all beautiful, bountiful and filled you with renewed hope of brighter, more peaceful times to come. Just this morning I heard on the news that the US is looking at gradual troop reductions and withdrawal from the Middle East...possibly it is the beginning of healing and the start of a journey toward more peaceful times...we can only hope.

I would like to take this opportunity to update everyone on a couple of the Indiana Section's initiatives for the coming year. Two major items: increased recognition and awards for our membership on the National level and preparation of an Indiana Infrastructure Report Card.

National ASCE has a wonderful and extensive recognition system for its membership and I would like to help the Indiana Section's membership receive some more of the recognition they deserve. Every year the Indiana Section bestows honors on several of its members at the Annual Section Meeting...this year we are planning to add to the list of honorees with additional Section and National awards. The reasoning behind the increase in recognitions, in addition to them being well deserved, is to bring positive attention and light to our noble



profession of Civil Engineering, by duly and properly publicizing the awards given.

This past spring ASCE released a report card for America's Infrastructure. If any of our children would bring home similar

grades on their school report cards, I paraphrase, that at the very least: "we would not be very happy engineers..." Sixteen areas were graded; grades ranged from a C+ (solid waste) to D- (drinking water, navigable waterways and wastewater) with an overall GPA of 1.0...a "D". The entire national report card is a 195 page document that may be found on the ASCE website: (<http://www.asce.org/files/pdf/reportcard/2005reportcardpdf.pdf>).

The National Report card also addressed each state individually, in an overview format to support the overall national grades. Several Sections and Branches have prepared their own, more detailed report cards focusing on their own geographic boundaries. The Indiana Section has decided to join the effort and prepare a report card for Indiana's Infrastructure, to be released at the State Section meeting on March 21st, 2006 (The Fountains Banquet & Conference Center in Carmel). To help us in this endeavor we have applied, to National ASCE, for and were awarded a small State Public Affairs Grant, otherwise known as a "SPAG", in the amount of \$1500 for 2006, approximately half of our estimated budget

for this project. Mr. Jim Lutterbach, of R.W. Armstrong, has offered to chair the committee preparing this most important document and its debut. Please contact Jim or me if you are interested in being involved.

As Civil Engineers, all of us together in public and private arenas are responsible for educating our fellow citizens in our neighborhoods, towns, cities, counties and State about what it is we do, why and how we do it and how what we do impacts all of our health, welfare and overall quality of life. We are the "Builders of the Quality of Life" proclaiming that we are building "A Better World by Design" (both ASCE mottos, by the way)...if we cannot explain it...who can?

Thank You!

Theresa

Theresa E. Harrison, P.E., M.ASCE

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District 9 Director's Report

by Michael H. Wenning, P.E.

Holiday Musings



Due to publication deadlines I'm writing this over the Christmas holidays. This has always been a time of retrospection for me, and this year is no different. One of the things that

struck me this year is the vast difference engineering can make in our lives.

Let me start out with some gloomy facts. A year ago a devastating tsunami boiled out of the ocean to destroy many areas around the Indian Ocean. Over 225,000 people in 11 countries died. This year an unprecedented number of major hurricanes struck the US and Central America. Katrina alone caused the death of more than 1,000 people and caused severe economic hardship. In Kashmir, Pakistan, an earthquake killed about 87,000 in October.

But all the hurricanes this year caused less heartache than the 1900 Galveston hurricane, which killed over 8,000, or the 1998 hurricane Mitch, which caused the loss of around 9,000 in Central America.

So what's the point? Although these are different types of natural disasters, the common thread is that the more a society invests in engineered structures and protection, the less danger its population faces.

Why did the 1989 Loma Prieta earthquake in San Francisco during the busiest part of the day result in less than 70 casualties while a similar one in Bam, Iran, caused around 40,000? The US

and other industrialized countries actively pursue and enforce design standards that save lives and property. That's the application of scientific knowledge about forces and materials for the betterment of mankind.

This is what we, as engineers, do! Our actions every day accumulate to make this world a better and safer place to live. That's the great contribution and awesome responsibility that each of us has. Do you think of that often? Sure, you pull yourself out of bed, go to work and collect a paycheck day after day. But every road and bridge we design is another potential lifeline; every building a place of refuge; every waste treatment facility a source of improved health. The list goes on, but my space doesn't. Let me wrap these musings up by wishing everyone a wonderful new year and with my hope that you can be proud of the contribution you make to mankind this year.



Student Chapter at Rose-Hulman is Honored

Students Win the ASCE Ridgway Award for the Second Time!

The ASCE chapter at the Rose-Hulman Institute of Technology has been named the recipient of the 2005 Robert Ridgway Student Chapter Award. Intended to recognize excellence on the part of ASCE's student chapters, the award was established in 1965 in honor of Robert Ridgway, who served as ASCE's president in 1925. The winner is named by the Committee on Student Activities on the basis of the annual reports submitted by the chapters describing their activities and projects. The chapter at Rose-Hulman was recognized for its educational outreach efforts, fund-raising work for local charities, and service projects for both the community and the university.

Perhaps its most remarkable accomplishment during the past year was the rehabilitation and renovation of a local home. The students put on a roof, constructed front and back porches, installed a wrap to prevent moisture infiltration, built a staircase to the second floor, and added a ramp at the front entrance to provide wheelchair accessibility. "The student chapter proceeded with this project against my advice," Kevin G. Sutterer, P.E., the chapter's faculty adviser, noted in an early memo that questioned the undertaking. "I was involved in the early assessment of the project nature and scope, and based on my perception of what a student group can typically achieve on a service project, I concluded this project constituted too

See RIDGWAY AWARD - Page 9

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Indiana Section Names New Officers

Treasurer: Eduardo Calderin
Secretary: Jerry Frost

The Indiana Section has elected two new officers for the coming year. Eduardo Calderin of the Metropolitan Indianapolis Branch was named as Treasurer and Jerry Frost of the North Central Branch will be the Secretary.

Eduardo was born in Venezuela, coming to this country in 1984; in 1998 he became a U.S. citizen. He holds a B.S. degree in Civil Engineering from Indiana Institute of Technology and an Associate of Science degree in Survey Technology from Delta Academy.

Eduardo is a Project Engineer for Burgess and Niple and is involved with the design of roads, drainage systems, site development, construction inspection and surveying.

Eduardo is married to his high school sweetheart, Marlene; they have three children: Eduardo, Eduardo Ernesto and Elisa Marlene.

Jerry holds a B.S. degree in Civil Engineering from Ohio Northern University, a M.S. degree with Structures Emphasis from Penn State University and a MBA from the University of Maryland-University Center.

Jerry has over twenty years of direct experience with large and small civil

engineering projects. Currently he is President of Frost Engineering and Consulting Company in Granger, Indiana. His firm specializes in large and small engineering projects combining engineering and business with focus of management teams and assessment tools.

Jerry and his wife Annette have been married for 19 years and have two daughters: Andrea and Alisia. Annette is a Registered Pharmacist.

Events Calendar

Indiana Section

Annual Meeting:

March 21, 2006 - Indianapolis, IN

Section Board Meetings:

January 21, 2006 - Cicero, IN

Region 4

February 9-10, 2006 - Charleston, SC

20th Civil Engr. Prof. Dev. Sem.

November 7, 2006 - Purdue University, West Lafayette, IN

National ASCE:

Annual Conventions & CExpo:

October 2006 - Chicago, IL

ASCE Conferences

Geo Congress 2006

February 26-March 1, 2006 - Atlanta, GA

Structures Congress 2006

May 18-21, 2006 - St. Louis, MO

American Consulting, Inc. Wins ASCE CYM Employer Recognition Award

American Consulting, Inc., an Indianapolis based consulting firm, has been named as a recipient of the 2005 Employer Recognition Award by the ASCE Committee on Younger Members (CYM).

The Employer Recognition Program was established by the CYM to acknowledge employers who support and encourage younger member involvement and participation in ASCE activities.

The award will be presented to the Younger Members Committee, by Branch President

William Dubois, at a future meeting of the Metropolitan Indianapolis Branch.

American Consulting will be among the names listed in a future issue of *ASCE News* as a recipient of the Employer Recognition Award.



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2006 Indiana Section Annual Meeting Agenda

Tuesday, March 21, 2006

The Fountains in Carmel, Indiana

Preliminary Agenda

8:00-8:40 <u>Registration</u>	Continental Breakfast Courtesy of Sponsors and Exhibitors Press Release of Indiana Report Card for Infrastructure			
8:45-10:00 <u>Plenary Session</u>	Welcome Mr. Tom Sharp, Commissioner Indiana Department of Transportation			
20 Minute break	Refreshments Courtesy of Sponsors and Exhibitors			
10:20-11:30 <u>Technical Sessions</u>	<u>Transportation</u> Dr. Tommy Nantung, INDOT Research Division, Concrete Deterioration	<u>Environment</u> TBA	<u>Structural</u> TBA	<u>Geotechnical</u> Mike Wigger, Moderator
11:40-1:40 <u>Luncheon</u>	Student Chapter Awards: Michael Deer, PE Project of the Year & Civil Engineer of the Year Awards: Dave Warder, PE Luncheon Speaker: Mr. Ken Herceg, Hurricane Katrina Response with ASCE			
1:50-3:00 <u>Technical Sessions</u>	<u>Geotechnical</u> Dan Liotti, Midwest Mole, Trenchless Technology - New Installation Methods	<u>Disaster Response</u> Hurricane relief Dam & Levees in IN Building Safety	<u>Student Presentation Competition</u> Moderator: Brad Bobich	<u>Business Management</u> Mr. Rick Rhodes, Vice- President, Anthem Blue Cross and Blue Shield Health Savings Accounts
20 Minute Break	Refreshments Courtesy of Sponsors and Exhibitors			
3:20-4:30 <u>Technical Sessions</u>	<u>Transportation</u> Randall Over, Ohio Dept. of Transportation, ODOT's Local Project Administration Process	<u>Hydraulics/Environment</u> INDOT & IDNR MOU	<u>Student Presentation Competition</u> (Continued if necessary) Brad Bobich	<u>Tools of the Profession</u> or another session for Structural, Geotech, Architectural, or Construction
4:30-5:30 <u>Reception</u>	Order of the Engineer Ceremony. Refreshments, Hors d'oeuvres, Door Prizes. Visit Exhibit Booths, network with fellow engineers, speakers and ASCE Officers.			

REGISTRATION FORM & INFORMATION

Indiana Section Annual Meeting – Tuesday, March 21, 2006

The Fountains Banquet & Conference Center

(502 East Carmel Drive, Carmel, Indiana)

Name: _____ Reg. P.E. ? Yes ___ No ___

Name: _____ Reg. P.E. ? Yes ___ No ___

Name: _____ Reg. P.E. ? Yes ___ No ___

Company: _____

Address: _____ Phone: _____

City: _____ State: _____ Zip: _____ Fax: _____

Annual Meeting Fees:

Full Registration (includes luncheon): \$110 x _____ = \$_____

Student Registration (includes luncheon): \$ 12 x _____ = \$_____

Luncheon only: \$ 30 x _____ = \$_____

Early Registration Discount: (\$ 10) x _____ = \$_____

(Applies to registrations paid by March 10, 2006
and only to Full registrations)

Total Enclosed \$_____

Make checks payable to:

ASCE INDIANA SECTION

Mail this completed form, with payment to: David P. Devine, P.E.

Attn.: ASCE Indiana Section

2101 E. Coliseum Blvd.

Fort Wayne, IN 46805

Phone: (260) 481-6857

Fax: (260) 481-5734

E-mail: devined@ipfw.edu

The early registration discount applies to those who pay full registration when payment is *received by March 10, 2006*. There is no early registration discount for student registration.

On-site registration will be available from 8:00 a.m. to 11:30 a.m. the day of the meeting.

Note: See included insert with map and directions to the Fountains Banquet & Conference Center.

News From The Branches

NORTHEAST BRANCH

Report by: David Devine

Northeast Branch President

The first meeting of the Northeast Branch in several years was held in November. There were just under 20 attendees from a good range of civil engineering disciplines, ages, and cities & towns from the Northeast Indiana area. Officers from the Branch from years past were in attendance. The attendance may have been a bit compromised by the date which coincided with a meeting for the Tri State Student Chapter as well as elections in other states. The meeting was primarily a social gathering for attendees and discussions of getting the branch back in the active mode.

Attendees supported more meetings and activities in the future. Suggestions were made for tours and speakers. Furthermore, folks did reflect on Branch activities from years past. I welcome anyone to contact me with their suggestions for future activities as well as to inform me about activities of the past. It would be good to build the memory bank and institutional knowledge of the branch by documenting what was done years ago.

Some attendees offered to serve as an executive council to comment, critique, and just be aware of actions by the Branch President while there are no other officers. No one in attendance was interested in a Branch officer position and I offered to serve as Branch President. I welcome assistance for officer positions or to serve on this executive council. The Branch plans to promote and attend the Tri State Student Chapter Spring Banquet. Future contact with members will be primarily through e-mail. If you do not have e-mail or do not rely on that mode of contact, you are encouraged to notify me at (260) 481-6857 or at 2101 E. Coliseum Blvd. Ft. Wayne, IN. 46805, <http://149.164.39.1/~devined/>

NORTH CENTRAL BRANCH

Report by: Mark Foster

North Central Branch President

As 2005 draws to an end, we find ourselves through about half of the ASCE North Central Branch (NCB) luncheon meeting schedule. Thus far it's been an interesting and exciting year. Most recently and notably, INDOT Commissioner Thomas O. Sharp presented the "Major Moves" that INDOT is making to "Drive Indiana's Economic Growth" at our December meeting. His discussion also included leasing the Indiana Toll Road and the P3 (Public Private Partnerships) concept that Governor Daniels and he will be pursuing as one avenue to remedy the funding shortfalls.

This year we also presented a well deserved Life Member Certificate to Mr. Daniel R. Lawson, P.E. Mr. Lawson's professional accomplishments are only paralleled by his generosity to the community he helped shape. We thank him for the many contributions he has made to the ASCE at all levels, the civil engineering profession and our community.

We would also like to thank our other captivating speakers beginning with Mr. Michael Guzik, P.E. Mr. Guzik is a Civil Engineer for Lawson-Fisher Associates, P.C. and also a reservist for the U.S. Army. He portrayed the realities of Afghanistan and his experiences while on active duty in stunning and graphic detail. Next, Jim Blazek of D2 Land and Water informed us of some new BMP tools for erosion control and storm water pollution control. Lastly,

Mr. John Schalliol, the Executive Director at the South Bend Regional Airport, discussed the exciting realignment of Lincolnway West and the expansion plans of the Airport in an effort to broaden the capabilities of this major artery of transportation.

The North Central Branch will again engage our community's youth in the exciting field of science by participating in the St. Joseph County Public Library's 14th annual Science Alive! event. It will be held on Saturday, February 4, 2006 from 9:00 a.m. to 4:00 p.m. throughout the Main Library on Main Street in South Bend. There is still a large need for volunteers for set-up and tear-down the day of the event. If you are interested in volunteering please contact Jared M. Huss at jhuss@lawson-fisher.com or 1-574-236-1320, ext. 143.

The North Central Branch will celebrate National Engineers Week 2006 at the Century Center on March 4, 2006. Please join the ASCE and eight other engineering societies to hear Michael D. Thieneman, Executive Vice President, Chief Technology Officer, Whirlpool Corporation, tell the Whirlpool engineering story of the "washing machine". We look forward to this exciting event with a chance to meet engineers from a variety of discipline from all around Michiana. Ticket and reservation deadline information will be forthcoming. Spouses and Non-ASCE members are also invited to attend and corporate tables are available.

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Student Chapter Activities

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INDIANA - PURDUE FORT WAYNE

Report by: David Devine Student Chapter Advisor

The IPFW Student Club is gaining momentum with a number of new recruits during the Fall 2005 semester. These new members are students in the Civil and Architectural Engineering Technology Department (CAET) at IPFW. The IPFW Engineering Department is still waiting for the final approval from the Indiana Higher Education Commission to offer a Bachelor Degree in Civil Engineering.

Through sponsorship from Student Government obtained by Matt Kubik, RA, AIA, Assistant Professor, CAET plans to send a group of students to the Indiana Section Annual Meeting next March. It is hoped that a group of senior students will participate in the Student Design Competition at Indiana Section Annual Meeting next March.

UNIVERSITY OF NOTRE DAME

Report by: John Roche Student Chapter President

The Notre Dame Chapter of ASCE has been busy and at it again. Among the most notable ASCE news in our neck of the woods was not made by a student, but rather a professor.

Ashan Kareem was just recently honored by ASCE and given the Robert H. Scanlan Medal. His hybrid approach to wind

modeling and structural dynamics has set him apart from many of his peers, so much so that he was bestowed this honor. He was noted for "outstanding original contributions to analysis, quantification, modeling and simulation of wind-load effects for structural design, achieved by merging the fundamentals of structural mechanics and fluid dynamics." His graduate level class on wind engineering which is offered the spring semester will surely be filling up even more rapidly than before as a result of this notoriety.

Much of the other work around the chapter has been focused on undergraduate social events, where myself and my fellow peers have a chance to be civil with each other outside of the classroom. Additionally, the concrete mix and shape of the boat have been finalized for the concrete canoe for next semester. This gives many of the undergraduates high hopes of making a big splash at Madison Wisconsin come the spring with the ability to compete with one of the national powers in their own backyard. We have made great strides this year in our design and research, which is just coming into its own in this, the third year of participation in the concrete canoe competition, after nearly three decades of stagnancy. The young Civil Students have put a lot of time into this project, and we can only hope that the hard work pays off come April.



Report by Kevin Sutterer Student Chapter Advisor

Although the news is no longer recent, it has not been previously published in this newsletter that our student chapter learned last May that we received the 2005 ASCE Ridgway Award for best student chapter in the nation. This is the second time the chapter was so honored. Three of our officers traveled to the ASCE National Convention in Los Angeles in October to receive the award. It has been an honor and privilege to be selected by ASCE for this award.

As always, the chapter was busy with a variety of activities this fall. Some of our guest speakers included:

- Mr. Darrell Bakken, retired Director of Engineering for the Indy Water Co who spoke to us about the Three Gorges Dam in China;
- Dr. Scott Schiff, Professor of structural engineering at Clemson University who spoke to us about wind loads with respect to hurricanes and natural wind load threats in our area; and
- Dr. Richard Deschamps of Nicholson Construction who spoke about specialized geotechnical construction in North America.

Our service work included helping with part of set construction for an Underground Railroad reenactment

See **STUDENT ACTIVITIES** - Page 9

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STUDENTACTIVITIES - from Page 8**Rose-Hulman Institute of Technology**

organized by neighboring college, St. Mary of the Woods; designing a wheelchair ramp for a local resident; hosting an Explore Engineering program on the Rose campus for area middle school students; and collecting over \$3,500 from the Rose community for the Terre Haute Tribune Star Christmas Basket collection.

We conducted field trips to the Indianapolis Airport terminal construction site (thanks to Joel Ericson and the other engineers who hosted us) and to the new Hulman Street sewer main construction in Terre Haute (thanks to recent Rose alum Laura Hemming). We are also planning several other quality field trips in the coming months.

Our chapter, for the first time, hosted a HEC-RAS workshop for Indiana water resources engineers. This three day workshop was a great success and will likely return next year. The assistance of instructors David Knipe, Louis Feagans, and Dr. Robert Houghtalen, not to mention so many other behind the scenes volunteers, assured its success. With the assistance of CE department secretary Kathy Nicoson and department chair Robert Houghtalen, we organized a homecoming brunch for civil engineering alumni in October which proved to be a great time. We also hosted the Civil Engineering Board of Advisors and many of our students for our annual Christmas banquet this December.

**TRI-STATE
UNIVERSITY****Report by Justin Howard**

Outgoing Student Chapter President

It has been a long, but exciting, semester here at Tri-State University (TSU). We had our annual fall picnic in September, which was a great opportunity for the younger students to begin their involvement with ASCE.

Additionally, the TSU student chapter was lucky to have two very good guest speakers this semester. First, Mr. Rick Senger of Seneca Petroleum gave an interesting presentation about asphalt paving and the use of recycled tire rubber in mix designs. More recently, we had Mr. Kurt Heidenreich of Engineering Resources, Inc. speak to us about bridge design. The presentation focused on his design of a relatively new cable-stay suspension bridge.

Looking forward to the spring semester, preliminary plans are underway for our annual spring banquet, new officers have been elected, and TSU is excited about the state ASCE meeting and regional canoe competition. Our new officers for 2006 are:

President – Jennifer Sharkey
Vice President – Amanda Cope
Treasurer – Brad Ewart
Secretary – Dan McCoy

As the year is wrapping up, we have been continuing work on our concrete canoe. Many improvements to both the mix design and the mold have been made since last year, and we are looking forward to all the events of the spring semester.

**RIDGWAY AWARD** - from Page 3**Rose-Hulman Students
win the ASCE Ridgway****Award for the second time!**

much work for the chapter to accomplish, and was thus reluctant to see the chapter proceed with the work.”

Delighted that the students followed through with their initial goals to help improve the habitability of her home, Betty Rose Watson wrote as follows to Rose-Hulman’s civil engineering department: “Words cannot express how I feel about the help given by the civil engineering students at Rose-Hulman. I was thrilled when I heard they would be coming and have been amazed at their joy in performing the tasks. Many of the jobs they undertook were totally impossible for me to accomplish.”

After the renovation was complete, Sutterer had some sage advice for faculty advisers: “I should never underestimate what our students can achieve,” he said. “I should not discourage students from setting their sights high. I can continue to challenge students about the projects they accept, but should not stop them if they are clearly determined to succeed. The benefits gained from watching students achieve greatness through projects like this one far outweigh the ‘costs’ invested, minor though they may be, in working as a chapter adviser.”

In addition to the Robert Ridgway Student Chapter Award, the Vice Presidents Awards were bestowed on the following institutions: the U.S. Military Academy (Zone I), Mississippi State University (Zone II), South Dakota State University (Zone III), and the University of California at Berkeley (Zone IV). Conferred annually, the Vice Presidents Awards recognize the most outstanding student chapter in each of ASCE’s four Zones.

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