President’s Message

By Charles Riling

There is one thing that seems impossible to stop. That being whether we want it to happen or not, the calendar continues to move forward. We have flipped from to December to January once again ringing in a new year. As in past years the MAC Board of Directors has been planning for the year 2008 as well as looking even further ahead.

As the saying goes that when you complete one major event, planning commences immediately for the next one. The MAC has been planning certain phases for our 15th Annual Conference as early as February of 2007. So you can see that planning is a long term process in order to provide you with the best that we can. It seems that it is always a race to do better than the previous year.

In 2007 the MAC ventured into the State of New Jersey for the very first time in holding our 14th Annual Conference in Atlantic City. A great big WELL DONE goes out to Paul Evans and all that worked on putting together a great conference. Please see the conference wrap-up article within this newsletter.

For the past several years, the MAC has been stepping into new arenas. Every time we turn around we are venturing into uncharted waters. 2008 will be no exception. Although the MAC has held several conferences in Pennsylvania during the past, this will be our first in western portion of the state.

As indicated earlier, planning for the 15th Annual Conference to be held at the Radisson Hotel Pittsburgh-Green Tree, Pittsburgh, PA., is well under way and being guided by our conference chair – Don Sheaffer. As always, the conference will kick off with the MAC’s annual golf outing to be held on Tuesday, September 23, 2008 followed

See President's Message, page 2

High Rollers win BIG in Atlantic City

The Mid-Atlantic Chapter of the International Erosion Control Association chose Resorts International on the boardwalk in Atlantic City to host their annual conference and board elections. This prestigious event hosted a huge turnout on the red carpet including all of the major players in the erosion control industry allowing everyone to rub elbows with this year’s elite board nominees. Under the lights in Action City at the closing ceremony luncheon, several board members hit the jackpot once again this year by getting re-elected to the Board of Directors. In grand style Charles Riling cashed out as the big winner taking home the office of President. Don Sheaffer was heard to comment that he was very satisfied with taking home the 1st Vice-President position. The crowd was disappointed this year when news came that Robert Connelly pulled out of the competition, however a local favorite Paul Evans stepped into the arena and was not disappointed with his take of the 2nd Vice-President slot. John Gonzalez, an odds on favorite, took the stakes of Secretary with the authority he brings to the table year after year. Once again, one of the longest running participants and fiercest competitors, Scott Keefer, maintained his rank in securing the top financial position of Treasurer. The star studded audience expressed their appreciation with a stand-up ovation sending everyone home completely satisfied with the results. We all look forward, with anticipation to attending this event next year in Pittsburgh, Pennsylvania! We expect to see some of the old faces along with new stars participating and you never know what erosion control industry celebrity will make an appearance.
by an Exhibitor’s social later that evening. The opening session
will be on Wednesday, September 24th followed with technical
sessions thru Thursday the 25th. Friday the 26th will be set
aside for CPESC, CPSWQ and CESSWI exams.
SO MAKE YOUR PLANS TO JOIN US IN PITTSBURGH
SEPT. 23-25, 2008

As conference information becomes available, it will
be posted at www.macieca.org. See keep checking.

For the 7th consecutive year, the MAC is an award
winner. It was announced, just before the Christmas holidays
that the MAC was the 2007 recipient of the Chapter Management
Award of Achievement. The dedication of the MAC’s Board of
Directors and its membership continue to shine in all of its
endeavors. I wish to thank each of you for making the MAC a
chapter that all look up to.

During the final months of 2007 and the early part
of 2008 our Scholarship Committee was busy reviewing
applications and determining who would become 2008
Scholarship winners. Please read the scholarship article within
this newsletter to check on this year winners. Many thanks
go to Beth Krumrine, Paul Evans, Scott Keefer and Darryl
Cook for a job well done. If you would like to apply for a
scholarship award in the future or would like information about
scholarships, please go to www.macieca.org and click on the
scholarships link.

If your group, organization, conservation district,
watershed association, etc., would like for the MAC to assist
you or arrange for you a workshop dealing with water quality
issues, regulations, erosion and sedimentation control products,
product demonstrations or an actual on the ground workshop
please contact me or one of our state representatives or any
member of the MAC. A listing of the state representatives can
be found in the Committee/State Representative link on our
web page.

If you are not currently a member of the IECA and the
MAC/IECA and would like to join and participate as an active
member I urge you to contact Don Sheaffer at doncurlex@aol.
com or any other member to learn how to join. Membership
applications are available on the MAC web page. Remember,
when you join IECA, you automatically become a member of
the MAC.

If you are already a member and want to become
more active, please contact one of the state representatives and
find out what you need to do. There are numerous positions
(committees and sub-committees) available within the Chapter
that can use your expertise and assistance in running the
Chapter and its various workshops, seminars, conferences, etc
around the region.

Please keep checking the MAC webpage at www.
macieca.org for the latest happenings within the Mid-Atlantic
Region

SCHOLARSHIPS AVAILABLE TO OUR
FUTURE COLLEAGUES

By Paul Evans, Scholarship Committee Chair

For the past four years MAC has been awarding annual
college scholarships to students who are in or considering career
tracks in fields related to the erosion and sediment control industry.
These areas of study include environmental science, agriculture,
environmental engineering, forestry, soil science and natural resource
management, among others. With the help of hard working and
dedicated member Tanya Lelo, last year’s program was more suc-
cessful than ever. A comprehensive list of schools offering course
work in the applicable fields was developed and a contact person or
department at each college was identified. A great deal of discussion
between chapter members has refined the contents of the scholar-
ship application materials to a concise package that makes it easy for
participating students to apply. The contents consist of a cover letter
explaining the program, an application form and a general informa-
tion sheet that covers eligibility, specific submission requirements
and a deadline. The core of the application consists of an essay on a
specific topic that is reviewed in detail by Chapter members.

Three $500.00 scholarships are awarded to applicants with
the most technically sound and thought provoking essays. We al-
ways attempt to read between the lines a bit to try and find those
special students who show a passion for the profession; individuals
who are likely to be our future colleagues. Giving undergraduate
students an assist with their tuition is a great way to stimulate further
interest in professions related to erosion and sediment control. Every
participating student benefits from the program by expanding their
knowledge of environmental issues in the process of developing their
essay. As erosion control professionals, we all benefit from stimulat-
ing interest in the young people who are going to lead the industry in
the coming years.
Welcome New Members

The Mid-Atlantic Chapter would like to welcome 31 new members that have joined our ranks during the months of December and January. We wish to extend each of you a very warm greeting and we are looking forward to meeting you in the future. The new members by state are:

**Delaware:** Deborah Fulton and Jamie Rutherford

**Maryland:** Scott Perry

**New Jersey:** Nancy Palmstrom, William Slack, Fielding Collins, Jean Baluski, Michael Marcella, Kerry Jennings and Alfred Galvan.

**Pennsylvania:** John Baker, Russell Hanaway, Cricket Meixner, Jeff Smith, Tracy Litwiler, Steve Fabian, David Citro, Robin Ernst, Harold McCutcheon, Brooke Leonard, Benjamin Smith, Rik Longacre and Theron Leighton.

**Utah:** Glenn Eurick

**Virginia:** Rob Gillions, David Nichols and Luther Pollard.

**West Virginia:** James Allen, Jeremiah Johnson and Doug King.

With the new members shown above, the MAC now as a total membership of 290 people.

In addition to the new members, the MAC Board of Directors at its September board meeting in Atlantic City, NJ elected Mr. Steve Zwilling to join the ranks of the MAC Board of Directors. Since Steve is located in North Carolina, the board made him a director at large. Welcome aboard Steve.

Please welcome and extend your support to these industry professionals. Board members, including state reps, always welcome your comments and input. The torch has been passed and MAC welcomes in 2006!

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**Mid-Atlantic Chapter**

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**Tips from our DE Friends**

- Always filter water before pumping off site
- Twist the end stakes of adjoining sections of silt fence to eliminate gaps
- Look into hydraulic mulches (wood fiber, BFM, FGM, etc.) for stabilization
- Install outlet pipes and structures before excavating the stormwater pond
- Key in erosion control matting at the top of the slope to keep from undermining
- Leave vegetation until it absolutely must be removed for the next step in construction
- Temporarily stabilize soil as soon as rough grading is complete
- Use flexible pipes to safely convey runoff to the bottom of the slope
- Leave a vegetated buffer along slopes, wetlands and waterways to trap sediment
- Protect bioretention/biofiltration areas from sediment and compaction during construction
- Use locculants to settle fines in sediment basins before it rains and the basin discharges
- Underlay stabilized construction entrances with geotextile fabric
- Maintain erosion and sediment controls after every storm event
- Keep subcontractors on paved or stoned surfaces
- Sweep streets on an as-needed basis, rather than a periodic basis
- Have a copy of your state’s erosion and sediment control guidance manual on site at all times
- When using a dewatering bag, set it on a stone bed in a vegetated area
- Select a pump size that is appropriate for the dewatering bag
- Divert clean runoff away from your work area
- Get the soil tested to determine fertilizer needs
- Keep extra sediment control materials on site such as stone for stabilized construction entrances
- Cover pallets of fertilizer bags to prevent contact with rainfall
- Do not stockpile excess soil outside of the approved construction phase
- Install sediment controls for all ditch crossings, including utility construction
- Block off all site access points except for approved stabilized construction entrances
- Investigate alternatives to water for your dust control needs
- Install a concrete washout pit
- Train employees and subcontractors in erosion and sediment control; 15 minutes will do wonders
Conference Wrap Up
By Paul Evans, 14th Annual Conference Chairman

From September 25th to September 27th, 2007 the Mid-Atlantic Chapter, along with 130 of our closest friends, went to Resorts Hotel and Casino in Atlantic City, NJ for the 14th Annual Conference and Trade Show. As we learned from the 18 presenters and 20 exhibitors, going green in combination with the tried and true erosion and sediment control BMPs is never a gamble. It truly is a sure bet. Speaker after speaker provided the latest technical information along with real world examples demonstrating that working with Mother Nature is a winning strategy.

One of the supreme benefits of IECA membership is that you can keep up with the constantly evolving field of erosion and sediment control technology and the equally shape-shifting science of stormwater management. The Conference presenters were selected based on their cutting edge work and research. For example, one presenter talked about the latest innovations in bioretention design, including strict specifications for bioretention cell soil media which practically guarantees that the system will drain properly with minimum maintenance. Another explained how and why to inspect the installation of these bioretention facilities at all critical phases of construction to ensure that they work properly. Installing these facilities out of sequence or not protecting them during construction activities can lead to bioretention failure, so we were taught how to avoid these pitfalls. To top it off, attendees were provided with pollutant reduction data for bioretention facilities over the many years of monitoring that the presenter had performed. In other words, attendees were able to learn about bioretention from soup to nuts.

Those in attendance also benefited from the world-class expertise of several industry leaders in the field of rolled erosion control products. The way that the latest in product innovation, installation and testing procedures was presented made the sessions truly enlightening. Attendees also heard intriguing case studies covering topics ranging from permit coordination to vegetation establishment and stormwater recharge. These speakers did a bang-up job at taking a wealth of technical information and bringing it all home to the real world. To top it off, IECA personnel led two of the sessions and were available to answer inquiries about how the premier erosion and sediment control organization can benefit your business or agency and help you achieve your professional goals.

We were blessed to be able to land Mr. Ron Faucher, IECA Board President as our keynote speaker. Ron regaled us with a homespun story of the days leading up to his current position with humor, insight and humility. When he finished it dawned on the audience that they had been taught a lesson without even realizing it. Ron is truly one of a rare breed that makes you want to excel at your profession with his knowledge and leadership abilities while remaining humble and approachable.

If you are like many erosion and sediment control professionals, you have been to a product exposition or two. The Atlantic City show drew manufacturers and distributors from all facets of the field. Slope stabilization, filtration and alternative sediment trapping devices are just a few examples of the wide variety of technologies represented. There’s nothing like being able to speak to the experts about how their products can solve your erosion and sediment control problems. The exhibitor’s social, where folks mingled for both Conference breaks providing time for networking
50/50 winner Ellen Radar with her $200

See Conference Wrap Up, page 7
JOBSITE PRODUCTS, INC. carries a complete line of geosynthetic and erosion control products including: geotextiles, geomembranes, geogrids, silt and safety fences, landscape fabric, inlet filter pads, erosion control blankets, gabions, geocells and more.

Nick Fanto, Technical Sales
215-740-1042 Cell

Jobsite Products, Inc.
1515 Gehman Road
Harleysville, PA 19438

Bio-Chem Testing Inc.
~Ground Water Testing & Monitoring
~Stormwater Sampling, Treatment, & Analysis
~Customized Reports

Bio Chem Testing, Inc.
5 Weatheridge Drive
Hurricane, WV 25526
(304)757-8954
www.biochemtesting.com
info@biochemtesting.com
Mid-Atlantic Chapter of the International Erosion Control Association (MAC/IECA)
Newsletter Advertisement Form

The advertisement type description, requirements and rates for the year 2008 are as follows:

1. **Business Card Advertisement**: Your business card advertisement will appear on our business card advertisement page along with other business card advertisements. Size is approximately 2-1/2” x 1-1/2”. **Cost is $50.00 per issue.**

2. **Quarter-page Advertisement**: Your business advertisement will appear once within the newsletter. Size is approximately 3-3/4” x 5”. **Cost is $100.00 per issue.**

3. **Half-page Advertisement**: Your business advertisement and/or article will appear once within the newsletter. Size is approximately 7-1/2” x 5”. **Cost is $150.00 per issue.**

4. **Full-page Advertisement**: Your business advertisement and/or article will be featured prominently within the newsletter, such as inside the front or back covers, as a special insert or other appropriate location. Size is approximately 7-1/2” x 10”. **Cost is $250.00 per issue.**

Please note articles and pictures should use the following format:

1. All articles submitted should be in MS-Word. Use Times New Roman, Font Size 11. Use spell check and grammar check. Website articles are acceptable if presented in the correct MS-Word format.

2. All photographs should be JPEG format. The resolution should be 640X480 or 800X600. All photos should be in color. All photos should include a caption (identify people).

Please complete the form and return with a check (made out to MAC/IECA) to Mr. Robert Connelly, 1240 Tahoe Ct., Harrisonburg, VA 22801-8659. Mr. Connelly can be contacted at (540)438-1423 or rconnelly@acfenvironmental.com for further information. You may pay for one or two issues at a time.

Name: _____________________________________________________________
Business:  _____________________________________________________________
Address:  _____________________________________________________________

City, State and Zip Code: __________________________________________________________
Telephone No: ____________ Facsimile No. ____________
E-mail Address (Optional):________________________________________________________

Type Advertisement: ____ Rate _____ x Number of issue(s) _____ = $ ______________

Attach: Business Card ____________ / Advertisement / ____________ / Article ____________
(Please check one. Check Article only, if requesting a half-page or full-page advertisement.)

Also Accepting MasterCard or Visa: Card #____________________________
Exp. Date ______

Authorized Signature __________________________________________

6
business and pleasure, was a conference highlight and the food and drink were first class.

Resorts Atlantic City Hotel and Casino is a beautiful facility and the staff responded to our every need in a timely fashion. Attendees not only walked away with a head full of useful information, they had a great time the entire week. From the hugely successful golf tournament to the closing ceremonies the response was terrific. It was one Atlantic City sojourn with a guaranteed payoff.

By all means, join us from September 23 to September 25, 2008 in Pittsburgh, Pennsylvania for MAC-IECA’s 15th Annual Workshop and Trade Show. Work has begun on putting it together and it promises to be an essential event for those who want to stay at the forefront of the erosion and sediment control industry.

For the seventh consecutive year, the Mid-Atlantic Chapter is a winner. Just prior to the Christmas holidays, the IECA announced its 2007 award winners. The MAC was the receipt of the Chapter Management Award of Achievement.

The Chapter Management Award is explained as follows: This category includes such concepts as structure, planning, review and resources. Structure deals with the Chapter’s important documents, written job descriptions and volunteer solicitation. Planning and Review evaluates the Chapter’s strategic planning process, budgetary development, communication with members and headquarters, general meetings and leadership selection. Resources is regarding to the technology available to the Chapters.

In addition, the MAC was one of six chapters within the IECA to score more than 500 points for each of the categories that make up the award structure. The three categories are Chapter Management, Membership Development/Services and Education/Outreach.

The MAC’s success in winning awards each year is a tribute to the membership of the chapter and the leadership of the chapter, as well as the partnerships with other organizations developed by the chapter over the years. The tireless and most times unappreciated efforts of everyone involved coming together for a common cause does have its rewards.

Congratulations to the chapter membership, board of directors and officers for all of their hard work and a job well done in 2007. The bar continues to be set at unprecedented levels. Here’s looking forward to a successful 2008.

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India IECA Chapter on the Move
An update on the MAC’s sister chapter in India
By John Peterson

The MAC’s sister IECA Chapter from India has been very active since its formation. In March 2007 they conducted a one-day seminar on the importance of controlling soil erosion using coir textiles which are so plentiful in southern India. The seminar was held in Calicut in northern Kerala, and was attended by nearly 500 people. This area of Kerala is highly prone to erosion due to its rugged topography. This hilly terrain, home to major spice and coffee plantations, is losing a great deal of topsoil. The residents of the area are not conversant with modern techniques of erosion control. The IECA India Chapter, in association with the Indian Coir Board, organized this seminar to expose the local public and leaders of the local self-governments to the different techniques of soil erosion control using coir textiles. The local self-governments in the Indian State of Kerala are entrusted with the duty of soil and water conservation, and 40% of the state’s planning funds are expended through these organizations. India Chapter President C.R. Devaraj, Dr. U.S. Sarma, and M. Kumaraswamy Pillai, Executive Director of the Coir Board, all made presentations that were well received. Dr. Krishna Kumar, Director of the Indian Institute of Management delivered the keynote address on coir geotextiles.

In a related project activity, our MAC is helping the India IECA Chapter in working with the India Coir Board and the Asia-Pacific Institute of Soil Bioengineering on a Hilly Terrain Erosion Control & Rural Women Empowerment Project. We are assisting by helping them find a philanthropic organization that could fund the project. The Wayanad and Idukki districts, located in the State of Kerala in the southern most part of India, have hilly terrain which is subject to landslides and soil erosion in a massive way due to high rainfall, large volumes of runoff, and destructive man-made agricultural activities. The inhabitants in the area are not concerned with the destructive effects of erosion due to lack of awareness. Both these districts have been inhabited by socially and economically backward people, who live below the poverty line. Erosion takes place on public land such as hill slopes; road embankments etc., and gets little attention from the people or officials. Even though the State Government has separate departments for soil conservation, the budgetary allocation for the department is low, which does not allow them to take up projects for prevention of soil erosion. Further, the government departments are still practicing the traditional methods of soil erosion control such as stone pitching, surface concreting etc., which are cost prohibitive and also not environmentally friendly. They have not yet turned their attention to the latest technological developments in erosion control by adopting soil bioengineering techniques, which are being practiced all over the world.

Kerala is the homeland of coir, the fibrous mass extracted from the outer cover of the coconut extensively cultivated in the coastal belt of the State. Traditionally, the coir fiber is extracted by women workers in the coastal belt by manual process known as retting. The fiber is thus spun into coir yarn on traditional wheels, and different varieties of coir floor coverings are manufactured using traditional looms. The coir industry is a source of employment to more than half a million people in the State of Kerala, especially...
women who constitute nearly 80% of the total work force. The coir industry is second only to agriculture as a source of employment in the State, and the "per person-employment" cost in the coir sector is in very low. It is estimated that with an annual investment as meager as US $250, it is possible to generate employment for 2 women workers in spinning activity. Among the products being manufactured out of the coir yarn produced in traditional wheels, are coir geotextiles, - a mesh fabric used for erosion control, and slope stabilization in combination with the natural vegetation is also produced. The coir geotextiles are largely exported from the State for various soil bioengineering practices. There is a need to undertake a pilot project to demonstrate the effectiveness of coir geotextiles, which are produced locally in the State, and also to create additional employment for hundreds of workers, predominantly women, in the hilly terrain. The Asia Pacific Institute for Soil Bio-engineering proposes to undertake a demonstration project in the districts of Wayanad and Idukki of Kerala State, in soil erosion control and for the generating of employment of women workers through the coir industry. The APISBE will collaborate with the Coir Board of the Government of India, a statutory body for development of coir industry in India, the local bodies of the Government of Kerala, and the International Erosion Control Association (Indian Chapter) for implementing the project.

The project envisions identification of most vulnerable areas to soil erosion in the above districts by conducting a site assessment to decide the most appropriate methods of soil erosion control, preferably using coir geotextiles and other natural materials, and as a linkage to create employment opportunities for the local inhabitants in the coir activities. In order to proceed with this demonstration project, APISBE is hoping to find funding of approximately $495,000 US, and cash and in-kind technical services will be provided by APISBE and its Indian partners. Should this project be successful, and all believe it will be, additional such projects will be planned. To date the MAC has contacted about 30 foundations with no success. This work continues. Our sister chapter is off to a very ambitious start. We wish them the very best.

Answers from Professors Quiz on back page

1. d) In the Rational Method, the variable "c" relates to land use such as woods, impervious areas, lawns, etc. The slope of the land can also affect the "c" value.

2. c) "Freeboard" is a term which represents the elevation difference between some type of surface, such as the top of a dam or the edge of pavement, and the water surface elevation such as a reservoir or flow in a roadside ditch. Freeboard is essentially a safety factor, and many jurisdictional codes dictate this elevation difference which must be built into designs.

3. a) Sediment traps generally are installed at the low end of sites, where water drains. As such, they should be installed first, then the diversion structures such as earth dike or swales which direct sediment-laden runoff to the traps would be installed, working in a downstream-to-upstream manner.

4. b) Since silt fence is a filtering device, it needs to be placed such that it can intercept sheet flow and allow for the flow to pass through while retaining the sediments upstream of the fencing material.

5. c) Temporary stabilization should be done as soon as possible after land disturbance. The state of Maryland specifies 7 days in its sediment control manual. Caveat: If a contractor is working off an approved sediment control plan which specifies a more stringent stabilization timeframe, the plan should govern.

6. b) The pre-construction meeting should focus on items germane to sediment control measures and construction procedures. Phone numbers should be exchanged so that people can stay in communication with one another. The type of inlets ordered has little relevance to sediment control and to the issues the contractor sees that may arise in the field and require resolution prior to construction.

7. b) The tracks of a dozer running up and down the slope creates small "benches" in the slope which help to slow down the velocity of water as it descends the slope. If the dozer were to run across the face of the slope, the tracks will create small channels perpendicular to the slope, thereby facilitating the runoff of water, increasing the velocity, and creating erosion problems.

8. d) Section 404 deals with the discharge of dredge and fill material.

9. d) Erosion control matting helps keep seed and straw in place on newly graded areas so the seed and straw do not wash off in a rain storm.

10. c) Soil amendments help improve soil pH, nutrients for vegetation, and improve drainage and stabilization by improving the stability of the soil platelets.
Professor Cleanwater Quiz

This is the first in what will hopefully be an ongoing series of quizzes in the newsletter. The purpose of the quiz is to test your overall erosion and sediment control knowledge, provide a refresher for professional certifications, serve as a learning tool, and simply to have fun. The Professor has tried to come up with questions that are geared toward the overall professional capacities of our members, and professionals who work in the broad field of erosion and sediment control. So, put on your thinking caps, sharpen your pencils, and have fun. Answers are included below.

1. In the Rational Method for hydrology computations, the variable "c":
   a. Represents the coefficient relating to land use.
   b. Varies based on slope.
   c. Varies based on rainfall.
   d. Either A or B above.

2. The term "freeboard" is best described as which of the following:
   a. The depth of flow in a ditch.
   b. The elevation difference between the top of a dam and the bottom of a dam.
   c. The elevation difference between the top of a dam and the elevation of the water surface impounded behind the dam.
   d. The discounted cost of lumber at Home Depot.

3. Upon installation of sediment control measures in the field, sediment traps should be constructed:
   a. Prior to constructing the earth dikes which direct runoff to the traps.
   b. After the site is stabilized.
   c. Only when the sediment control inspector says to construct them.
   d. First, before any other sediment control measures are to be installed.

4. Silt fence should be installed:
   a. Perpendicular to the contours of the land.
   b. Parallel to the contours of the land.

5. Temporary stabilization should be done:
   a. Whenever the contractor gets around to it.
   b. Twice a year.
   c. Within 7 days of land disturbance.
   d. As directed on the sediment control plan.

6. At a pre-construction meeting, all except which of the following should be discussed:
   a. The sequence of construction.
   b. The type of inlets the contractor will order.
   c. Minor plan changes the contractor sees as being necessary.
   d. Exchange of phone numbers among the inspector, the contractor, and the owner.

7. When grading a slope, a bulldozer operator should run the dozer:
   a. Across the face of the slope.
   b. Up and down the slope.

8. Section 404 of the Clean Water Act deals with:
   b. Wild and Scenic Rivers Act.
   d. Discharge of dredge and fill material.

9. Erosion control matting can be effective in the following:
   a. Ditch stabilization.
   b. As a stabilized construction entrance.
   c. Slope stabilization.
   d. A and C above.

10. Soil amendments can be beneficial in the following ways:
    a. Improve soil pH and nutrient availability.
    b. Improve drainage and stabilization capabilities.
    c. A and B above.
    d. None of the above.

*Answers on page 9*