



**Environmental Awareness and Regulation Source**  
*Environmental, Health and Safety Newsletter*

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### **Department Chair**

Welcome new and returning students! The EH&S program future outlook is looking very promising. I am pleased to officially announce our new Water and Wastewater Certificate programs. The certificates were six months in the making, and we are very excited about having them. Enrollment is up over 20% this semester in EH&S and I believe this is mainly due to the overall demand for EH&S Technicians! We are making new EH&S Business and Industry contacts weekly and many are also interested in sending employees to EH&S classes. Special thanks goes out to Bob Collins for his efforts in turning the water and wastewater certificates idea into a reality. Please feel free to contact me if you have any questions or need assistance with anything. Email is typically the fastest way to do this. I can be reached at [dball@starkstate.edu](mailto:dball@starkstate.edu) or 330-494-6170 ext. 4470.

Donald M. Ball  
Director of Apprenticeship & Industrial Training

### **Did You Know?**

Your Department Chair is also a Stark State College Alumni! His educational background consists of an A.A.S. in Mechanical Engineering Technology from Stark State College, a B.S. in Industrial Technology from Kent State University, and an M.B.A. from Ashland University. He pursued these degrees while working full time in industry—so he understands your pain! He is currently pursuing an Ed.D. (Doctor of Education) in Teacher Administrator Leadership at Walden University. Prior to coming to Stark State College in early 2003, he worked for a decade with Union Metal

Corporation in Canton, Ohio, engineering, in various operations as well as in sales and marketing roles.

### **Get to Know Your Faculty**

Bob Zahirsky currently teaches Air Sampling, Analysis and Control (ENV224). He has worked in some area of environmental protection his entire career. He has designed pollution control equipment and served as a representative of the Ohio EPA in Stark County for many years. Stark County is currently considered to be in nonattainment for two of the six criteria air pollutants, ozone and fine airborne particles. The condition of our air impacts public health and restricts future economic growth in our area.

Bob's enjoyment of outdoor activities and desire to preserve our natural resources led to a career in Environmental Engineering and EH&S. There is much important work to be done in all areas of conservation and remediation. The Great Lakes are under considerable environmental pressure as are our air and soil resources. To Bob, working in the area of environmental protection becomes a matter of stewardship in our efforts to preserve our planet.

The solutions to our earth's problems will come from people who have the technical training to develop new sources of energy and to apply the technology required to restore our lakes and streams.

Bob has been an adjunct instructor with SSCT for seven years. He has found it rewarding to know SSCT is preparing our students to tackle future environmental problems.

**Remember:** There are many resources offered by Stark State College to support you in your development from student to successful graduate. Take advantage of these opportunities.

## **Environmental Club**

Did you know that you can be a member of an exciting club because of your major? It's the Environmental Club. The environmental club is a way to exercise your love for the environment through different activities. If you are interested in participating in this exciting club, please contact [Bob Collins](mailto:rcollins@starkstate.edu).

## **Recycling Continues**

As the one-year anniversary of recycling at Stark State draws near, it is important to look back at how far we've come before looking forward to where we have yet to go. In the initial weeks of recycling operations, it took several weeks to fill the outside dumpster. More recently, we have been filling the outside dumpster each week making weekly pick-ups necessary. At this pace, the revenue received from recycling combined with the savings in waste disposal costs (1 less dumpster to be landfilled each week) has risen to approximately \$1,500 per year. This amount of recycling saves us approximately 800 trees, 18,000 gallons of oil, 140 cubic yards of landfill space, 187,000 kW of electricity and 328,000 gallons of water.

Even with these impressive numbers, there is still much progress to be made. The United States leads the way in recycling among developed nations by recycling approximately 32.1% of solid waste generated. At present, Stark State only recycles approximately 18.8% of all solid wastes. This is only a little over half of the national recycling rate. As a result, we will be looking to expand this program in the months ahead. At present, recycling receptacles are located mostly in staff and faculty areas limiting recycling to only those areas.

In the weeks and months ahead, we will be looking for ways to expand recycling into student areas. This effort will be helped with the approved hiring of a part-time Environmental, Health and Safety Student Assistant starting in spring semester. This student will be paid under the Federal Work Study Program for up to 10 hours per week. Their primary responsibility will be to assist in management of the recycling program. If you are interested in the EH&A Student Assistant position, please check out the

Stark State web site ([http://www.starkstate.edu/finaid\\_bus/fin\\_aid/fa\\_fwsp\\_opps.htm](http://www.starkstate.edu/finaid_bus/fin_aid/fa_fwsp_opps.htm)) or contact Bob Collins at Ext. 4014 or [rcollins@starkstate.edu](mailto:rcollins@starkstate.edu).

## **Instructors – Spring 07**

I want to thank the following EH&S instructors for their dedicated teaching efforts to provide a quality EH&S program to our students during spring 2007.

ENV121– *Regulations & Compliance*: Dominic Nardis (from The Timken Co.)

ENV221 - *OSHA 40-Hr Hazwoper & ENV230 - OSHA 8-Hr Refresher*. Team taught by Bob Collins and Jennifer Zylko (8-Hour).

ENV225 - *Solid & Hazardous Waste Sampling*: Bill Ullom (from Vadose Environmental Consultants).

ENV226 - *Water Sampling, Analysis and Control*: Bob Collins (New Instructor and EH&S Coordinator)

ENV228 - *Health & Safety*: Team taught by John Pflaum and Giulio Gabriele (from Air Braking Systems Corporation)

ENV236 – *Health & Safety Special Projects*: Bill Courser

## **Instructors – Summer 07**

ENV221 - *OSHA 40-Hr Hazwoper*: Team taught by Bob Collins and Jennifer Zylko.

ENV230 - *OSHA 8-Hr Refresher*: Jennifer Zylko

## **Instructors – Fall 07**

ENV221 - *OSHA 40-Hr Hazwoper & ENV230 - OSHA 8-Hr Refresher*. Team taught by Bob Collins and Jennifer Zylko (8-Hour).

ENV222 – *Industrial Processes and Pollution Control*: Bill Courser.

ENV223 – *Basic Geology / Hydrology*: Bill Ullom (from Vadose Environmental Consultants).

ENV224 – *Air Sampling, Analysis and Control*: Bob Zahirsky (from Canton City Health Department).

## Career Information EH&S Technology Home Page

**Bachelor of Science Completion Programs (Articulation Agreements with 4-year colleges):** Stark State College has articulation agreements with two 4-year colleges. That means that students with an A.A.S degree in EH&S Technology can pursue their bachelor of science (B.S.) at those schools with minimal, if any, bridge work.

- **University of Akron** – B.S. in Emergency Mgmt. The University of Akron offers a B.S. completion program in Emergency Management through their Public Health Division in the Community and Technical College. [For more information, visit their website](#)
- **University of Findlay** – B.S. in Environmental Mgmt. The University of Findlay offers a B.S. completion program in Environmental Mgmt. Most of their courses can be taken on-line. [For more information, visit their website](#)

We are currently in discussions with a number of other colleges that may lead to new Articulation Agreements with Youngstown State University, Ohio University in Athens, Ohio and the Rochester Institute of Technology (RIT) in Rochester, New York.

### **What Does an Environmental Technician Do?**

The Environmental Technician conducts field investigations, collects samples, and performs laboratory tests to obtain data. The technician analyzes and interprets data, and communicates the results in written and oral forms for use by environmental, engineering and scientific personnel in determining sources and methods of controlling pollutants in the environment.

### **What Does a Safety and Health Technician Do?**

- The Safety and Health Technician recognizes, evaluates, and controls workplace hazards through employee education and engineering practices to ensure a safe and healthy work environment.

### **Emerging Trends at the Environmental Technology Level**

- Indoor Air Quality and Microbial Support Services
- Ergonomics
- Nanotechnology and Ultrafine Particles
- Pollution Prevention and waste minimization
- Non-point source pollution control
- Movement away from regulations towards best business/management practices
- International standards such as ISO 14000/14001 environmental mgmt standards
- Treatment standards
- Innovative treatment technology
- Use of computerized mapping
- In-field sample analysis
- Watershed analysis
- Permitting

## Activities

**EnviroFun 2007** – Our sixth EnviroFun event will take place on March 22, 2007. The agenda should be firmed up and informational packets mailed to interested parties by mid January. EH&S students will be needed to man our exhibit space and help in other ways. Students who wish to contribute should contact Bob Collins at Ext. 4014 or [rcollins@starkstate.edu](mailto:rcollins@starkstate.edu).

## News

***Employers/Job Titles of Stark State Graduates***

***Advanced Analytics Labs/Lab Technician***

***Aircraft Braking Systems/Environmental Engineering Assistant***

***American Environmental Group/Operations Maintenance***

***BJAAM Environmental, Inc/Field Technician***

***City of Canton/ Lab Technician***

***Clayton Group Services/Environmental Technician***

***IT Corporation/Landfill Gas Technician***

***JR Wheel/Safety Manager***

***Marathon Ashland Petroleum/EH&S Technician***

***PEL Technologies/Lab Technician***

***Roadway Express/No job title given***

***Scanacon/Lab Technician/Research***

**Strasburg Wastewater/Operator**  
**Summit Environmental/Lab Technician**  
**SunPro/Environmental Technician**  
**The IT Group/Environmental Data Manager**

## Students

**Graduating Class** – There were no students scheduled to graduate after Fall Semester (2006). At present, there are three (3) planning to graduate in May 2007 (at the end of Spring Semester). Only one semester lies between now and the realization of their dreams. More on them in the next issue.

**Undeclared Students** – If you are still undecided about a major, there is important career information in Environmental, Health and Safety Technology available under <http://www.starkstate.edu/div42022.htm> if you would like to pursue a challenging and rewarding career in EH&S Technology. If you would like to discuss an A.A.S. degree in EH&S and a B.S. degree after Stark State College, just e-mail me at [rcollins@starkstate.edu](mailto:rcollins@starkstate.edu) to chat further about this long-standing and emerging field.

### **EH&S Major - Enrollment**

- Students enrolled in 2005 53
- Students enrolled in 2004 42
- Net Enrollment Increase 26.2%

### **Number of students per class (Fall 2006)**

- ENV222: 5
- ENV223: 7
- ENV224: 7
- ENV221 & ENV230: 15

## Professional Organizations

National Registry of Environmental Professionals [www.nrep.org](http://www.nrep.org)  
Ohio Water Environment Association  
[www.ohiowater.org/owea](http://www.ohiowater.org/owea)  
Institute of Hazardous Materials Management  
[www.ihmm.org](http://www.ihmm.org)  
Environmental Organizations  
[www.webdirectory.com](http://www.webdirectory.com)  
EnviroLink  
[www.envirolink.org](http://www.envirolink.org)

## Useful EH&S Websites

National Safety Council [www.nsc.org](http://www.nsc.org)  
Occupational Health and Safety [www.osh.net](http://www.osh.net)  
National Environmental Health Association  
[www.neha.org](http://www.neha.org)  
Hazardous Materials Training and Research Institute [www.hmtri.org](http://www.hmtri.org)  
Community & College Consortium for Health & Safety Training [www.hmtri.org/ccchst\\_index](http://www.hmtri.org/ccchst_index)  
U.S. Environmental Laws  
[www.hmtri.org/ccchst/links/laws](http://www.hmtri.org/ccchst/links/laws)

## Contact Us

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