



Environmental Awareness and Regulation Source

Environmental, Health and Safety Newsletter

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## Department Head

Welcome to the Stark State College Environmental, Health and Safety Program. Thanks to the efforts of our coordinator, Willie Scalero, this newsletter will update you on academic and environmental events our college and the community, in addition to potential jobs in the market. Please let us know how we can help you succeed through your journey at Stark State College.

## Program Coordinator

I am excited about the challenges that face the EH&S Technology in the coming semesters. Our goals include the following:

- To provide further flexibility to the program by offering several on-line courses.
- To provide a challenging curriculum that better prepares our EH&S students for the professional workplace.
- To provide existing EH&S students all the resources to be successful for graduation.
- To provide our EH&S graduates with job opportunities within the local and surrounding communities.
- To provide those EH&S graduates that go on to further their education (Bachelor's Degree) with a strong curriculum to support their success at the next level.
- To continue to provide our EH&S students with the highest quality of instruction.

I am presently part-time but can be reached via e-mail ([wscalero@starkstate.edu](mailto:wscalero@starkstate.edu)) to visit with you at your convenience. You should never have

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an EH&S academic career path obstacle that cannot be attended to by our Department Head, our Instructors and/or me.

## Instructors – Spring 05

I want to thank the following EH&S instructors for their dedicated teaching efforts to provide a quality EH&S program to our students this spring 2004.

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

ENV221 - *OSHA 40-Hr Hazwoper* & ENV230 - *OSHA 8-Hr Refresher*. Team taught by John Pflaum, Willie Scalero, and Jennifer Zylko (8-Hour).

ENV225-*Solid & Hazardous Waste Sampling*, ENV226-*Water Sampling, Analysis and Control*, and ENV228-*Health & Safety* didn't have the mandatory eight students to conduct a classroom so all three courses were done under Mr. Scalero as independent study requiring projects, periodic classroom, a WebCT course related to coursework, Environmental Club community participation and involvement with Environmental Education Awareness through EnviroFun 2005.

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

## Instructors – Fall 05

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

ENV223 – *Basic Geology/Hydrology* – Bill Ullom

ENV224 – *Air Sampling, Analysis, and Control* – Bob Zahirsky

ENV221 – OSHA 40-Hour HAZWOPER – Lead Instructor Willie Scalero

ENV230 – OSHA 8-Hour HAZWOPER – Lead Instructor: Willie Scalero

## **Stark State College student named to “All-Ohio Academic Team”**



Heather Bennett, an environmental health and safety student at Stark State College, received third-team honors to the 2005 All-Ohio Academic Team. Bennett, an Akron resident, joined 46 of the state’s best two-year community and technical college students who received All-Ohio Academic Team honors.

Bennett was recognized with a medallion and certificate at the April All-Ohio Academic Team Luncheon in Columbus.

The All-Ohio Academic Team provides statewide recognition to outstanding

two-year college students and opportunities for cash scholarships. The program is sponsored by the Ohio Association of Community Colleges (OACC), Phi Theta Kappa International Honor Society, and Honda of America Mfg., Inc.

Students are nominated by their college and have a minimum cumulative grade point average of 3.25. Students are selected based on academic performance, demonstration of leadership and community service involvement.

## **Career Information** **[EH&S Technology Home Page](#)**

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**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](#)
- **Youngstown State University** – B.S. in Environmental Studies. [For more information, visit their website.](#)

### ***Environmental, Health and Safety Technology***

The associate of applied science degree in environmental technology prepares students to apply their skills in science, engineering, communication and economics to issues affecting the environment. This includes such issues as the quality of air, water and land. Other areas include workplace safety, environmental regulation and compliance and various environmental systems.

Environmental career fields include data collection, instrumentation, regulation, health and safety, worker protection, natural resources, waste minimization and pollution prevention. Additionally, the environmental technician is in demand with a vast array of manufacturing firms.

The program has been developed with ongoing input from an advisory committee of industry experts to ensure the curriculum includes the knowledge and skills needed in business and industry. Graduates of Stark State’s environmental program will be uniquely

qualified to meet the needs of both the private and public sectors as they face growing environmental regulation and concern.

#### **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**

- 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

#### **EHS Major – Enrollment Spring 2005**

- Number of students enrolled
  - Total student headcount: 32
    - New students: 3
    - Returning freshmen: 11
    - Total freshmen: 14
    - Sophomores: 18

- Total day students: 18
  - Day students full-time: 6
  - Day students part-time: 12
  - Day students new: 0
  - Day students returning freshmen: 8
  - Day total freshmen: 8
  - Day student sophs: 10
- Total evening students: 14
  - Evening students new: 3
  - Evening students returning freshmen: 3
  - Evening total freshmen: 6
  - Evening students sophs: 8

- Number of students graduating
  - Since inception: 46
  - This semester: 4
- Number of students per class (Spring 2005)
  - ENV121: 16
  - ENV225: 3 (Independent Study)
  - ENV226: 4 (Independent Study)
  - ENV228: 3 (Independent Study)
  - ENV221 & ENV230: 9
  - ENV236: 6

## **Curriculum**

**New Courses** - The EH&S Program Coordinator and Department Head are developing the following new courses to our EH&S program selection.

- Kirkwood Community College's On-Line Agreement with Stark State College
  - Permits & Administration
  - Water Analysis
  - Water Distribution System
  - Water Treatment I & II
  - Wastewater Analysis
  - Wastewater Collection Systems
  - Wastewater Treatment I & II
  - Wastewater Treatment: Industrial
- Environmental Recordkeeping & Reporting
- Water and Wastewater operator certification (awaiting approval from OEPA)
- Laboratory Safety for Science Teachers (2-3 day course for summer semester)
- DOT HM -126F Training
- OSHA 10-Hour Safety Orientation
- OSHA 30-Hour General Industry
- OSHA 24-Hour Moderate Risk
- 1 Year Certificates for Water, Wastewater and Basic Environmental Technology.

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## Activities

**EnviroFun 2005** – Our fourth EnviroFun on March 22, 2005 was a success. Over 289 students, teachers and representatives from eleven schools in Stark, Tuscarawas, and Wayne Counties enjoyed a field trip full of fun and education. EnviroFun 2005 was made possible through a grant from the Stark-Tuscarawas-Wayne Joint Solid Waste Management District, with the support of the following local businesses and organizations: Marathon Ashland Petroleum LLC, URS Corporation, Severn Trent Laboratory (STL North Canton), Galt Alloys, Inc, Titanium Products Division, and Countywide Recycling and Disposal Facility/Republic Services.

Schools that attended EnviroFun 2005 are: Jackson Middle School/Stark County, New Philadelphia HS/Tuscarawas County, Timken Sr. HS/Stark County, Timken Freshman Academy/Stark County, Sandy Valley Jr/Sr High/Stark County, Fairless HS/Stark County, Canton South HS/Stark County, Alliance HS/Stark County, Garaway HS/Tuscarawas County, Chippewa HS/Wayne County, Lake Center Christian School/Stark County.

Participants were informed about job opportunities that exist in the environmental & engineering sectors, exposed to practices involved in some environmental & engineering occupations, informed in science about the need to take courses like chemistry, biology, physics and math to better prepare them for environmental/engineering jobs and careers after high school or to transition into related post-secondary programs, and informed high school guidance counselors, science Department Chairs and teachers about environmental and engineering issues as well as environmental/engineering careers and their growth potential.

EnviroFun 2005 activities included the following: Showcases; Alternative Fuels (Electric and Bio-diesel vehicles), Botanical Garden Nature Preserve (Natural Resources), Countywide RFD Republic Services, Environmental Club, Mount Union College - Huston-Brumbaugh Nature Center, Ohio EPA –

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Northeast Region, Severn Trent Laboratories North Canton, Stark County Parks, Stark County Recycling, Stark State College of Technology Admissions, University of Findlay, URS Corporation, and Waste Management American Landfill, Measurements & Analysis; Science and Math on the Move (SAMM) – Instruments for Analysis, Canton City Health Department - Air Monitoring, Geographic and Land Information System & Global Positioning System; Ohio EPA - Global Positioning System (GPS), Ohio EPA - Geographic and Land Information System (GIS), HAZMAT (Hazardous Material Training & Personal Protective Equipment (PPE)); Ohio EPA (HAZMAT and PPE), University of Findlay (HAZMAT and PPE), Solid Waste/Landfill and Recycling; Stark County Recycling, URS Corporation, Countywide RFD Republic Services, Waste Management American Landfill, Engineering – Stark State College Civil Engineering Technology (CET); Computer software (Bridge Analysis), Engineering - Stark State College Electrical Engineering Technology (EET); Labview Instrumentation Demo, Programmable Logic Controller Demo w/Feedback Heating and cooling water system, Programmable Logic Device Demo, Microcontroller controlling a stepper motor, and EET Robot Design.

EnviroFun 2005 was positively received, and students and teachers consistently gave this year's event overwhelmingly positive ratings. I would like to thank all the student volunteers and the community-based advisory committee of Mike Eberle (Ohio EPA), Richard Dinko (Stark County Educational Service Center), Cathy Spino (Stark State College), and Christopher Monroe (Stark State College Environmental Club) for program development and implementation.

Pictures taken during EnviroFun 2005 can be viewed at [www.starkstate.edu](http://www.starkstate.edu) under the Environmental, Health and Safety Technology (Engineering Division).

## Employment News

Employers with EH&S job opportunities for interns and graduates for fall 2004, spring 2005 and summer 2005.

- AEP
- Alliance Casting
- ATC Associates
- Babcock & Wilcox
- BJAMM environmental
- Clayton Group Services
- Eco-Tron
- Envirite
- Great Works Employment
- Linda Heiks, Recruiter
- Marathon Ashland Refinery
- Olymco Inc
- Safety Resources of Ohio
- SAS Environmental
- Severn Trent Labs
- Shearer's Potato Chip Company
- Stark County Health Department
- SUMMIT Environmental
- SUNPRO Environmental Services
- URS Corp.
- Vadose
- Waste Management

## **Student Organizations**

**Environmental Club** – Thanks to the efforts of this year's officers (below) the Environmental Club continues to meet its intended purpose to promote environmental education, awareness, and appreciation, and to implement, educate, and assist in any programs of recycling, reducing, and reusing on the Stark State College campus and within the local community.

Spring 2005 Officers

- Chris Monroe – President
- Bob Rayman – Vice President
- Claus Siebenhaar – Treasure
- Erin Lenemier - Secretary

The following activities were conducted in spring 2005:

- URS Corporation came in September to a joint meeting of the Environmental and Civil Engineering Clubs to offer job opportunities and to discuss the market for environmental technicians and engineering technicians.
- The Environmental Club and other clubs participated as volunteers for the EnviroFun 2005 activity for over 270 area high school students in March.

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- The Environmental Club has several members active in the Habitat for Humanity project at SSCT.
- Several Environmental Club members have volunteered to join me to make a pitch for our EH&S program at selected area high schools.
- The Environmental Club will meet on selected Saturdays to take hikes together.
- The Environmental Club will be active supporting Fat Thursday on May 5<sup>th</sup>.

If you are an Environmental, Health and Safety Technology student you need to become active in our Environmental Club. We meet periodically to discuss careers and job opportunities, have speakers from different industries, and are active in a recycling program for Stark State College. If you are from a high school and would like to have your class attend an Environmental /club meeting or activity, please email me at [wscalero@starkstate.edu](mailto:wscalero@starkstate.edu).

## **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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