



Occupational Safety, Health, and Environment (OSH&E) Program  
Department of Computer Science and Industrial Technology  
Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402

July 19, 2013

Dear OSH&E Advisory Committee Member,

On behalf of Southeastern Occupational Safety, Health, and Environment (OSH&E) Program, we would like to give our sincere appreciation to you for your involvement in the OSH&E Advisory Committee as well as your participation in the meetings and discussion.

Enclosed please find the report of the OSH&E Advisory Committee meeting that was held on April 26, 2013. Please feel free to let us know should you have any questions and comments!

Our first meeting for the upcoming 2013-2014 academic year will be held as part of the Annual Departmental Advisory Committee Meeting. The meeting is usually scheduled sometime in October on the Hammond campus. A formal invitation will be sent to you when the meeting date and venue are confirmed.

Thank you very much for your consistent contribution to the program!

Sincerely,

Dr. Lu Yuan  
Assistant Professor

Ms. Dorinda Folse  
OSH&E AC Chairperson

Mr. Lance Roux  
OSH&E AC Co-Chairperson



## **OSH&E Advisory Committee**

### **April 26, 2013 Meeting Report by Mrs. Amanda Brown and Dr. Lu Yuan**

The last Occupational Safety, Health, and Environment (OSH&E) Advisory Committee meeting was held from 9:30 AM to 1:00 PM on April 26, 2013 in Anzalone Hall 214 on the Hammond campus. (Please see the attached examples of photos!) The attendees include ten of the twenty-three OSH&E Advisory Committee members (**Appendix A** with update-to-date contact information). Drs. Lu Yuan and Ephraim Massawe, and Mrs. Amanda Brown, the three full-time faculty members of the OSH&E program, were co-hosts of the meeting. Dr. Sebastian Van Delden, the CSIT Department Head, and Mr. Lawrence Mauerman, the former OSH&E coordinator, attended the meeting. Five OSH&E student, Ethan Reames, Richard Sanders, Shaine Babineaux, Stephanie Bankston, and Quinn Leblanc were present. Two guests including Andy Kovacs and Matthew Gautreau were in attendance. Absent were Richard Matherne, Don Jones, Rick Saizan, Dawn Bahm, Lance Roux, Buddy Mincey Jr., Alex Appeaning, Michael Gautreaux, Michael Page, Owens O'Quinn, Trey Rivet (on behalf of Connie Fabré), Glenn Young, and Dale Towle.

**Appendix B** contains the agenda of the meeting, which started with the welcoming from Dr. Van Delden. He first thanked the members for coming to the meeting. OSH&E had a 100% job placement for the Fall 2012 graduates and the program is growing strong. Ms. Dorinda Folse then briefed the members with the OSHA update. She called silence for Workers' Memorial Day which is on April 28, 2013. She also updated the attendees the ongoing investigation of the West Fertilizer Company explosion. The fatalities in construction, especially falls in residential construction, are still high. Those who are younger than 20 years of age, older than 44, and minorities, are in the high-risk groups. Self introductions were followed.

#### **OLD BUSINESS**

The first and foremost item under old business is OSH&E minor and new course examination (**Appendix C**). The minor and course examination request letter, instruction, and syllabi of the two new OSHE courses have been sent to all committee members on March 14, 2013. Members were asked to present their findings at this meeting or send them to us before the meeting if they could not attend. The following is a summary of findings as well as discussions at the meeting.

For OSH&E minor,

- Dr. Yuan first clarified that the three proposed minors are intended for majors other than OSH&E.
- Mr. Steve Pereira questioned how this development would affect other departments and how many more prospective students could eventually choose OSH&E as a major. He felt that if the minors were to be set up properly, it would help strengthen the program. Potentially students majoring in accounting, business, management, and health care could show interest in OSH&E.
- Mr. Wayne LaCombe felt OSHE 322 *Behavior Aspects of Safety* could be added for both minors in safety and health and whether it is OK to have electives for minors. He preferred flexibility in courses for minors. He used his minor in Chemistry as an example and felt it very valuable. This development is a good start and advertisement needs to be in place.

- Ms. Folsie thought OSHE 112 *Design of Hazard Controls* could be used for both minors in safety and health.
- Ms. Stephanie Bankston asked if substitutions could be allowed for minors. She thought word of mouth is important in promoting the minors to the entire University.
- Dr. Van Delden would need to confirm with the University on the requirements on minors.
- Mr. Charles Leonard felt the OSH&E program overly focused on safety and the environmental components need to be strengthened. He wondered if the OSH&E program shall be broken into several different programs.
- Dr. Massawe and Mr. Ethan Reames did not feel appropriate to break the program into several different ones as there might not be many students in each area.
- Mr. Mauerman and Dr. Yuan explained that there was plan to develop master's programs in different areas.
- Mr. Don Steadman believed that OSH&E majors must have the fundamental knowledge and skills in all three areas.
- Mr. James Kerr believed that the minors had to show value and quality in order to attract students.
- Mrs. Amanda Brown mentioned that there are many non OSH&E majors in her OSHE 111 *Introduction to Occupational Safety, Health, and Environment*, OSHE 121 *Safety and Health Program Management and Administration*, and other OSHE classes. These minors would attract those students.
- Ms. Michelle Shirley (on behalf of Ms. Beth Inbau) thought cost management needs to be included in the program.
- Those who could not make the meeting or did not make comments at the meeting, including Mr. Richard Matherne, Mr. Don Jones, Mr. Rick Saizan, Mr. Lance Roux, Mr. Glenn Young, and Mr. Donny Latiolais, all agreed on the proposal.
- All committee members in attendance unanimously agreed on the development of these three minors after voting.

For OSHE 423 *Insurance - Workers' Compensation, Loss Control and Risk Management*,

- Mr. Pereira likes the information on insurance but believes insurance is only a small part of the concept of risk management. He suggests the course title be Risk Management and Insurance. Five elements of risk management including risk identification, risk analysis, eliminating or reducing risk, financing risk, and administering the risk management process need to be addressed. Also the following concepts need to be introduced: due diligence when purchasing a new company or facility, continuity of operations if one loses a facility, risk associated with the life cycle of a product or operation, and risk reduction and cost-benefit analysis.
- Dr. Yuan explained that worker's compensation has been covered in both OSHE 111 *Introduction to Occupational Safety, Health, and Environment* and OSHE 382 *Construction Safety*. Risk assessment has been taught in OSHE 424 *System Safety Methodologies*.
- Mr. Andy Kovacs, the developer of OSHE 423 course specification sheet, mentioned that he was discussing with the Louisiana Association of Self Insured Employers (LASIE) to publish their materials used in the CWCP (Certified Workers Compensation Professional) class for academic use.

- Mr. LaCombe said this class is needed and could replace OSHE 323 *Product Safety and Liability*.
- Mr. Kerr thought students need to understand HIPAA (Health Insurance Portability and Accountability Act) and medical records. MGMT 351 *Principles of Management* should cover these.
- All committee members in attendance unanimously agreed on the development of OSHE 423 after voting.

For OSHE 442 *Principles of Radiation Safety*,

- Mr. Steadman said in his email prior to the meeting that “Radiation problems are not just for industry situations. Case in point, many operations have purchased used materials from the oil fields, such as drill stem pipe. A slag builds up inside the pipe that has a radioactive level that exposes the environment and the public to harm. It is also harmful to the worker who builds or manufactures products with it, such as railings and barricades. By cutting and welding on this material, it creates vapors and fumes hazardous to one’s health. Knowing that these problems exist, how to perform the inspections properly and documenting it through the correct processes and agencies will help our graduates achieve the success they will need in their profession.”
- Several members mentioned that there is radiation safety officer course available and there is also nursing/radiation laser technician.
- Dr. Yuan said that the CSP exam covers radiation questions.
- All committee members in attendance unanimously agreed on the development of OSHE 442 after voting.

The OSH&E faculty will work on the requests for these changes in Summer and Fall 2013. Once approved by the University Curriculum Council in Fall 2013, these changes will appear in University General Catalogue 2014-2015.

Next, Dr. Yuan reported to the committee that the OSH&E’s application for the Southeastern Student Technology Fee Small Project Grant (**Appendix D**) has been approved in March 2013. Approximately \$5,000 new equipment/instruments have been purchased, including: confined space entry system, electrical safety tester, lockout/tagout kits, etc. These systems are aimed to provide great hands-on opportunities for the OSH&E students to learn and practice the usage and operation of safety-related instrument/equipment. He also suggested that a 1-hour safety lab could be developed for the OSH&E program. Several OSH&E students urged that more equipment is needed, especially for OSHE 341 *Field Methods of Industrial Hygiene and Toxicology*.

Dr. Yuan then presented the preliminary results of OSH&E Employer Survey that was distributed through SurveyMonkey.com in March 2013. The survey was sent to twenty plus current employers or past employers of graduates or current students from Southeastern’s OSH&E program. The employers’ contact information was obtained from the OSH&E Alumni Survey Fall 2012 and through other channels. We received a total of 9 (including 1 via email) responses. The complete results are available in **Appendix E**. A summary of key findings is as follows:

- 1) The top two types of organization are: Manufacturing/Processing/Refinery and Construction/Maintenance/Structural.
- 2) All employers who responded the survey agreed that our OSH&E program meets each of the four educational objectives.
- 3) Employers indicated that all areas of competency (program outcome) are important to the Southeastern OSH&E graduate's job.
- 4) In the indication of the level of the Southeastern OSH&E graduate's competency in that area, the following areas received the relatively lowest ranking: Ability to anticipate, identify and evaluate hazardous agents, conditions, and practices; Ability to develop control designs, methods, procedures, and programs to eliminate or mitigate safety, health, and environmental hazards.
- 5) One employer who responded via email suggested that "a) Students need more practice doing public speaking. If you think about it- a core function of a safety professional is to deliver safety education – so public speaking ability is a must. And, b) Students need hands on knowledge- such as a walk through a shop to know equipment, safety devices and uses. I recently hired a SLU grad that did not know about a bench grinder or parts washer."
- 6) Employers indicated that all of the OSHE courses in the current Southeastern OSH&E Bachelor of Science curriculum are important.
- 7) The other courses/concepts that should be incorporated in the curriculum to meet current and future needs of safety, health, and environment include: Business Law & Project Management; Statistics (tracking, trending, overall analysis) [MATH 241 *Elementary Statistics* is required for the OSH&E BS curriculum]; Knowledge in Workers' Compensation; Carbon chemistry [CHEM 261 *Survey of Organic Chemistry* is required for the OSH&E BS curriculum]; Risk management and insurance fundamentals.
- 8) Most employers encourage or require the OSH&E graduates obtain CSP (Certified Safety Professional). Other recommended or required licensure/certification include: CIH (Certified Industrial Hygienist), ASP (Associate Safety Professional), CSST (Construction Site Safety Technician), CHST (Construction Health and Safety Technician), etc.
- 9) Every employer except one or two who answered the survey said that its organization regularly recruits Southeastern OSH&E graduates and would hire Southeastern OSH&E graduates in the future. Comments and/or suggestions for the OSH&E program include:
  - "Ensure boards are administrated as part of the graduation process."
  - "We are a Workers' Comp carrier. Knowledge in that subject would be helpful."

The last item under old business was the recent internship and employment opportunities for OSH&E students (names marked in green), which include:

- Internship
  - Atlantic Plant Services - A Member of the Brock Group
  - PEC Verification Specialist - Two Spring 2013 Interns (**Wendy Pitcher and Matthew Orlando**)
  - Axiall Corporation
  - Valero Summer 2013 - **Shaine Babineaux**
  - CB&I Summer 2013 EH&S Intern in Jenkinsville, SC
  - GBRIA - Intern/Part-time job

- Paid Internship with ASSE - Body of Knowledge Project
- SafetyPro Resources Intern - **Brandon Dove**
- Community Coffee EHS Summer 2013 Intern - **Jonathan Monistere**
- Employment
  - HSE Technician - Deepwater Wells at Shell
  - Safety Job opportunity for a Fire Protection Company
  - Safety Tech for BREC - **Eric Miller, OSH&E Fall 2012 Graduate**
  - NMC Employment Program Site Communication
  - OSHA Job Opportunities for Recent Graduates
  - Amerisafe Consulting and Safety Services
  - ExxonMobil Baton Rouge IH Position
  - CB&I Job Opportunity in Jenkinsville, SC
  - Southern Crane and Hydraulics Safety Position
  - Cajun Deep Foundations Safety Position
  - Safety Technician Position in Garyville, LA
  - Job Opportunities for OSH&E Majors from Office of Career Services

It was great to see many companies were starting or continuing to hire our students.

## **NEW BUSINESS**

Dr. Yuan first shared the Occupational Safety, Health and Environment Spring 2013 Newsletter (**Appendix F**) with the committee members. This semester-based newsletter which started in Fall 2012 is aimed to maintain better connection with OSH&E alumni by periodically sending them information about upcoming events, alumni news and achievements, student achievements, faculty news, and job openings.

Next, Dr. Yuan presented an update on the assessment requirements by the University SACS (Southern Association for Colleges and Schools) reaccreditation, ABET (Accreditation Board for Engineering and Technology) on the BS program, and ATMAE (Association of Technology, Management, and Applied Engineering) on the IT AAS concentration in OSH&E. We are trying our best to conduct the regular OSH&E program assessment to ensure the continuous improvement of the program.

In the end of meeting, Dr. Yuan invited the members to attend the OSH&E Spring 2013 Graduation Ceremony on Friday May 17, 2013 from 5:30 PM to 8:00 PM at Trey Yuen Hammond. At the ceremony, Mr. John Hodges, the Board of Certified Safety Professionals (BCSP) representative, would present the GSP (Graduate Safety Practitioner) Certificates to the ten OSH&E Spring 2013 graduates. We have also invited the representatives from the Greater Baton Rouge Chapter of ASSE, the CSIT Department Head, past OSH&E graduates, as well as some other colleagues and friends to celebrate the achievements with the graduates. (Note: Mr. Andy Kovacs, Mr. Glenn Young, Mr. Alan Rovira, and Mr. Don Jones, were interested but unfortunately could not make it. We greatly appreciate the interest and support from the advisory committee members.)

The meeting adjourned at 1 PM. We cordially appreciate Mr. Lance Roux and SafetyPro Resources, LLC for sponsoring the lunch.



## **Appendix A**

### **OSH&E Advisory Committee**

#### **Members**

**Steven P. Pereira, CSP**

President  
Professional Safety Associates, Inc.  
1027 North Range Avenue  
Denham Springs, LA 70726

Telephone: 225-665-6000  
spereira@professionalsafety.com

**Richard N. Matherne, CIH**

Industrial Hygiene Consultant  
36102 Alligator Bayou Road  
Prairieville, LA 70769

Telephone: 225-963-7424  
richard.matherne@gmail.com

**Don Jones PE, CSP, MBA**

HSSE Managers - Jennings  
BP Biofuels North America  
P.O. Box 389  
11107 Campbell Wells Road  
Jennings, LA 70546

Telephone: 337-785-4577  
donald.jones@bp.com

**Wayne LaCombe, MSPH, CSP**

ExxonMobil, MOH, Industrial Hygiene  
500 W. St. Bernard, Bldg 8 Room 105  
Chalmette, LA 70044

Telephone: 504-281-1956  
wayne.m.lacombe@exxonmobil.com

**William J. (James) Kerr, CSP**

Health, Safety, and Environmental Supervisor  
LBC Baton Rouge, LLC  
1725 HWY 75  
Sunshine, LA 70780

Telephone: 225-333-8430  
j-kerr@lbctt.com

**Dorinda Folse, OSHA Area Director**

Occupational Safety & Health Administration  
9100 Bluebonnet Centre Blvd, Suite 201  
Baton Rouge, LA 70809

Telephone: 225-298-5458  
Folse.Dorinda@dol.gov

**Beth Inbau, President & CEO, South Louisiana Chapter (New Orleans)**

National Safety Council  
4200 S. I-10 Service Rd. Suite 224  
Metairie, LA 70001

Telephone: 504-888-7618  
beth@metrosafety.org

**Rick Saizan, Safety Council LCA**

8180 Siegen Lane  
Baton Rouge, LA 70810

Telephone: 225-282-3291  
rsaizan@safetylca.org



<p><b>Dawn Bahm, CSP, President (2011-2012), ASSE New Orleans Chapter</b>  Senior Loss Prevention Consultant  Amerisure Insurance  27462 Country Club Ln  Folsom, LA 70437</p>	<p>Telephone: 985-796-3756  dbahm@amerisure.com</p>
<p><b>Lance Roux, CSP, Executive Board Member (2009-), President (2008-2009), ASSE Greater Baton Rouge Chapter</b>  SafetyPro Resources, LLC  18161 East Petroleum Dr.  Baton Rouge, LA 70809</p>	<p>Telephone: 225-247-7011  lroux@safetyproresources.com</p>
<p><b>Alan J. Rovira, MS, MPH</b>  Industrial Hygienist  Shell Health  15536 River Road  Norco, LA 70079</p>	<p>Telephone: 504-465-6893  Alan.Rovira@shell.com</p>
<p><b>Don Steadman, CWCP, CPSI</b>  BREC Senior Risk Manager  6201 Florida Blvd.  Baton Rouge, LA 70806</p>	<p>Telephone: 225-413-5626  dsteadman@brec.org</p>
<p><b>Buddy Mincey Jr., Safety Director</b>  Volks Construction  10983 Hwy. 1033  Denham Springs, LA 70726</p>	<p>Telephone: 225-673-5302  buddy@volksconst.com</p>
<p><b>Vladimir Alexander Appeaning, PhD</b>  Deputy Secretary  Department of Environmental Quality  Office of the Secretary  P. O. Box 4301  Baton Rouge, LA 70821-4301</p>	<p>Telephone: 225-219-3951  alex.appeaning@la.gov</p>
<p><b>Michael Gautreaux, CSP</b>  Instructor, Safety Technology  Department of Applied Sciences  P.O. Box 2148  Nicholls State University  Thibodaux, LA 70310</p>	<p>Telephone: 985-448-4740  michael.gautreaux@nicholls.edu</p>
<p><b>Michael A. Page, CSP</b>  Director of Safety &amp; Loss Prevention  LWCC  2237 S. Acadian Thruway  Baton Rouge, LA 70808</p>	<p>Telephone: 225-231-0874  mpage@lwcc.com</p>
<p><b>Owens O'Quinn, MSc, COSS, CSHO, IS</b>  President/CEO</p>	<p>Telephone: 337-824-9000  ooquinn@evergreensol.com</p>

Evergreen OHSSE Solutions, Inc.  
103 Houssiere Road  
Jennings, LA 70546

**Connie P. Fabré, Executive Director**

Greater Baton Rouge Industry Alliance, Inc. (GBRIA)  
5800 One Perkins Place Dr., Ste. 5-A  
Baton Rouge, LA 70808

Telephone: 225-769-0596  
ConnieFabre@gbria.org

**Glenn Young, CSP**

President  
Glenn Young & Associates, LLC  
5261 Highland Road, No. 193  
Baton Rouge, LA 70808

Telephone: 225-772-1588  
g.young.g@gmail.com

**Paul Higdon, COSS, CSST**

Corporate Safety Coordinator  
Cajun Industries, LLC  
P.O. Box 104  
Baton Rouge, LA 70821

Telephone: 225-754-0293  
paulh@cajunusa.com

**Dale Towle**

Safety & Health Manager  
Ohmstede Industrial Services  
4250 Hwy. 30  
P.O. Box 76  
St. Gabriel, LA 70776

Telephone: 225-642-5057  
dtowle@ohmstede.net

**Donny Latiolais**

Watershed Coordinator  
Capital RC & D Council  
109 South Cate Street  
Hammond, LA 70403

Telephone: 985-543-6570  
donny.latiolais@gmail.com

**Charles D. Leonard, CIH, President (2011-2012), AIHA Deep South Section**

4739 Loyola Drive  
Baton Rouge, LA 70808

Telephone: 225-335-7457  
alchemist7@cox.net

**Student Members**

**Ethan Reames**

13811 Green Franklin Rd.  
Pride, LA 70770

Telephone: 225-301-7131  
Ethan.Reames@selu.edu

**Richard Sanders**

285 Scott Barr Rd.  
Slaughter, LA 70777

Telephone: 225-921-2167  
Richard.Sanders@selu.edu

## **Faculty Members**

### **Dr. Lu Yuan, ScD**

Assistant Professor  
Occupational Safety, Health, and Environment (OSH&E)  
Department of Computer Science and Industrial Technology  
Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402

Telephone: 985-549-3838  
Lu.Yuan@selu.edu

### **Dr. Ephraim Massawe, ScD**

Assistant Professor  
Occupational Safety, Health, and Environment (OSH&E)  
Department of Computer Science and Industrial Technology  
Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402

Telephone: 985-549-2243  
Ephraim.Massawe@selu.edu

### **Mrs. Amanda Brown, MPH**

Instructor  
Occupational Safety, Health, and Environment (OSH&E)  
Department of Computer Science and Industrial Technology  
Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402

Telephone: 985-549-2871  
Amanda.Brown-6@selu.edu

### **Dr. Sebastian van Delden, PhD**

Associate Professor & Department Head  
Department of Computer Science and Industrial Technology  
Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402

Telephone: 985-549-2189  
Sebastian.VanDelden@selu.edu

### **Mr. Lawrence Mauerman\*, MAS, PE, CSP**

Coordinator, OSH&E Degree Programs  
Department of Computer Science and Industrial Technology  
Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402

Telephone: 985-549-3476  
lmauerman@selu.edu

\* - Mr. Mauerman retired after Spring 2012.



**Appendix B**  
**OSH&E Advisory Committee**  
**Semi-Annual Meeting Agenda**

April 26, 2013

<u>Time</u>	<u>Issues</u>	<u>Actions</u>
9:30 - 9:45 am	Welcome & Introduction (By Ms. Dorinda Folsie)	
9:45 - 11:15 am	Old Business	
	1. Development of OSH&E Minors and New Courses (By Dr. Lu Yuan)	
	2. Purchase of Safety Equipment (By Dr. Lu Yuan)	
	3. OSH&E Employer Survey (By Dr. Lu Yuan)	
	4. Recent Internship/Employment Opportunities (By Ms. Amanda Brown)	
11:15 - 11:55 am	New Business	
	1. OSH&E Newsletters (By All)	
	2. SACS/ABET/ATMAE Assessments (By Dr. Lu Yuan)	
	3. Others	
11:55 - 12:00 pm	Portrait & Group Picture	
12:00 pm	Lunch (Courtesy of Mr. Lance Roux and SafetyPro Resources, LLC)	



Appendix C



Lu Yuan <lu.yuan@selu.edu>

**Southeastern OSH&E Minor and New Course Examination**

17 messages

Lu Yuan <lu.yuan@selu.edu>

Thu, Mar 14, 2013 at 10:13 AM

To: Steven Pereira <spereira@professionalsafety.com>, Richard Matherne <richard.matherne@gmail.com>, Don Jones <donald.jones@bp.com>, Wayne LaCombe <wayne.m.lacombe@exxonmobil.com>, James Kerr <j-kerr@lbctt.com>, Dorinda Folse <Folse.Dorinda@dol.gov>, Beth Inbau <beth@metrosafety.org>, Rick Saizan <rsaizan@alliancesafetycouncil.org>, Dawn Bahm <dbahm@amerisure.com>, Lance Roux <lroux@safetyproresources.com>, Alan Rovira <Alan.Rovira@shell.com>, Don Steadman <dsteadman@brec.org>, "Buddy Mencey Jr." <buddy@volksconst.com>, "Dr. Alex Appeaning" <alex.appeaning@la.gov>, Michael Gautreaux <michael.gautreaux@nicholls.edu>, Michael Page <mpage@lwcc.com>, Owens O'Quinn <ooquinn@evergreensol.com>, Connie Fabre <Connie@gbria.org>, Glenn Young <g.young.g@gmail.com>, Paul Higdon <paulh@cajunusa.com>, Dale Towle <dtowle@ohmstede.net>, Donny Latiolais <donny.latiolais@gmail.com>, Charles Leonard <alchemist7@cox.net>, Trey Rivet <Trey@gbria.org>

Cc: Sebastian Van Delden <Sebastian.VanDelden@selu.edu>, Lu Yuan <lu.yuan@selu.edu>, Ephraim Massawe <emassawe@selu.edu>, Amanda Brown <Amanda.Brown-6@selu.edu>, Lawrence Mauerman <lmauerman@selu.edu>, Andrew Kovacs <Andrew.Kovacs@lctaonline.com>

March 14, 2013

Occupational Safety, Health, and Environment (OSH&E) Program

Department of Computer Science and Industrial Technology

Southeastern Louisiana University

SLU 10847

Hammond, LA 70402

Dear OSH&E Advisory Committee Member,

Greetings!

In order to promote the OSH&E program and potentially attract more OSH&E majors, the College of Science and Technology at Southeastern has approved that we develop a minor in OSH&E. Because safety, health, and environment are relatively three very different areas, the OSH&E faculty members have proposed to develop THREE minors with 6 (a standardized number) required courses for each minor as follows:

Minor in OSH&E - Safety:

- OSHE 111 *Introduction to Occupational Safety, Health, and Environment*
- OSHE 112 *Design of Hazard Controls*
- OSHE 231 *Safety Laws, Regulations, and Standards*
- OSHE 261 *Fire Protection and Prevention*
- OSHE 381 *Safety in Chemical and Process Industries* OR OSHE 382 *Construction Safety*
- OSHE 424 *System Safety Methodologies*

Minor in OSH&E - Health:

- OSHE 111 *Introduction to Occupational Safety, Health, and Environment*
- OSHE 141 *Principles of Industrial Hygiene & Toxicology*

OSHE 242 *Ergonomics*

OSHE 322 *Behavior Aspects of Safety*

OSHE 341 *Field Methods of Industrial Hygiene and Toxicology*

OSHE 441 *Industrial Toxicology*

Minor in OSH&E - Environment:

OSHE 111 *Introduction to Occupational Safety, Health, and Environment*

OSHE 141 *Principles of Industrial Hygiene & Toxicology*

OSHE 251 *Environmental Laws and Practices*

OSHE 341 *Field Methods of Industrial Hygiene and Toxicology*

OSHE 451 *Hazardous Materials Management*

OSHE 452 *Pollution Fundamentals & Control Technologies*

<For your information, details of the course content are available at <http://goo.gl/6nnC5>.>

Could you please:

1) tell us according to your experience and expertise if you agree with our proposal?

- Agree
- Don't Know
- Disagree
- Not Applicable

2) let us know if any of these OSHE courses are appropriate for any of these three minors?

On a separate note, we are proposing two new OSHE professional electives:

OSHE 423 *Insurance - Workers' Compensation, Loss Control and Risk Management*

OSHE 442 *Principles of Radiation Safety*

Please find attached the drafts of course specification sheets and kindly let us know what you think.

We will appreciate if you could present to us with your comments and suggestions when we meet on **April 26, 2013**. The meeting will be held at Southeastern Louisiana University main campus in Hammond. If you are unable to attend the meeting for any reason, please email or mail your findings to us. A formal invitation to attend this meeting will be sent to you later this month.

Thank you very much for your consistent contribution the OSH&E program!

Sincerely,  
Dr. Lu Yuan  
--

Lu Yuan, Sc.D., Assistant Professor  
Occupational Safety, Health, and Environment (OSH&E)  
Department of Computer Science and Industrial Technology

Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402  
Phone: 985-549-3838  
Fax: [985-549-5532](tel:985-549-5532)



**OSHE 423 Insurance - Workers' Compensation,  
Loss Control and Risk Management  
(Proposal by [Andrew Kovacs\\*](#))**

**Course Description:**

*Prerequisite: OSHE 111.* This course discusses the different aspects of workers' compensation, loss control, and risk management and how they interface to produce a comprehensive approach to controlling hazards, risks, and worker losses in a proactive plan for management of business/entity.

**Minimum Topics:**

I. Workers Compensation Basics

a. Pre- Workers Compensation

- i. Historical examples
- ii. United States precedents
- iii. Tort Actions
- iv. Legal progressions

b. Workers Compensation Systems

- i. Course and Scope
- ii. Occupational Injuries
- iii. Occupational Diseases
- iv. Benefits
  1. Temporary Total Disability
  2. Permanent Total Disability
  3. Permanent Partial Disability
  4. Wage Replacement
    - a. Calculating Wages
    - b. Average Weekly Wages
    - c. Supplemental Earnings Benefits
  5. Medical Benefits
  6. Vocational Rehabilitation

v. Insurance Options

1. Insurance Companies
2. Self Insured Retentions
3. Large Deductible Programs
4. Self Insured Groups
5. Self Insured Employees
6. Offshore Captives
7. Third Party Administrators

vi. Insurance Policies

1. First Dollar Programs
2. Retroactive Programs
3. Experience Rated Programs
  - a. Experience Modifiers
  - b. National Council on Compensation Insurance
4. Wrap Ups

5. Employers Liability
  - a. Excess and Umbrella Programs
  - b. Reinsurance
6. Loss Data Impacts
7. Cost Containment Programs
8. Second Injury Fund

## II. Loss Control/Prevention

- a. Hiring Practices
- b. Organizational Functions
- c. Claims Management
- d. Medical Case Management
  - i. Utilization Reviews
  - ii. Second Medical Opinions
  - iii. Independent Medical Exams
  - iv. Medical Guidelines
  - v. Mediation
  - vi. Legal Options
- e. Medical Questionnaires
- f. Monitoring Methodologies
- g. Claims Reviews
- h. Medical Management Strategies
- i. Settlement Options

## III. Safety Management

- a. OSHA
  - i. OSHA's Mission
  - ii. OSHA Regulations
  - iii. Functional applicability
  - iv. Recordkeeping
  - v. Catastrophic Incidents
  - vi. OSHA non-compliance penalties
  - vii. OSHA Voluntary Protection Programs
- b. Operational Safety Programs
  - i. Management Safety Commitment
  - ii. Hazard Identification and Assessment
  - iii. Job Safety Analysis
  - iv. Safety Rules
  - v. Safety Education and Training
  - vi. Dedicated Safety Personnel
  - vii. Incident and Near Miss Reporting
  - viii. Tracking Methodologies
    1. Total Recordable Incident Rates
    2. Databases
    3. Matrices
  - ix. Post Accident Responses
  - x. Root Cause Analysis
  - xi. Behavior Based Safety

- xii. Building a Safety Culture
- xiii. Safety Incentives
- xiv. Implementation, Review and Revisions
- xv. Ergonomics
- xvi. Emergency Preparedness Programs
- xvii. Disaster Recovery Programs

**Course Objectives:**

1. Describe the history of and explain the importance of workers' compensation
2. Discuss the policies and coverage of workers' compensation
3. Understand the process of the workers' compensation claims and the management of the medical cases
4. Explain the roles of loss control and risk management
5. Utilize OSHA and other pertinent operational safety programs to improve loss control and risk management

**Textbooks:**

[Mr. Kovacs stated that "Currently, I am in discussions with the Louisiana Association of Self Insured Employers (LASIE) to publish their materials used in the CWCP (Certified Workers Compensation Professional) class for academic use." Please let us know if you know of any books that are good to be used as textbook(s). Also, please review the following two books and let us know what you think. Thanks!]

1. <http://search.barnesandnoble.com/Understanding-Workers-Compensation-Insurance/C-D-Moore/e/9781418072704>
2. <http://www.pearsonhighered.com/educator/product/Principles-of-Risk-Management-and-Insurance/9780136117025.page>

**\*Biography:**

Mr. Kovacs has been involved in Risk Management, Safety and Workers Compensation since 1985. In addition to completing an MBA program with a concentration in Risk Management in 2006, he is CWCP (Certified Workers Compensation Professional) certified. His career includes a Fortune 500 Company administering Workers Compensation claims worldwide, Risk Manager positions for Hibernia National Bank in New Orleans, LA and OMNI Energy in Carencro, LA. Teaching positions include Homeland Security and Emergency Management with Tulane University, New Orleans, LA, and the National Safety Council in New Orleans. A published author, his writings include: Reverse Management and numerous articles on Safety, Risk Management, and Loss Control, in addition to seminars for The American Institute of Banking, National Safety Council, and Tulane University.



## PROPOSAL for a NEW COURSE

### **OSHE 442, PRINCIPLES OF RADIATION SAFETY**

#### PROPOSAL:

Establish a new course, **OSHE 442, Principles of Radiation Safety**, to be offered as a professional elective as part of the Occupational Safety, Health & Environment (OSH&E) curriculum at Southeastern Louisiana University.

#### JUSTIFICATION:

Radiation can be a serious health and safety threat, in both its ionizing and non-ionizing forms.

It can be encountered in one form or another in many Louisiana industries. A few examples are:

- ! Telecommunications: high-frequency radio waves encountered in telecommunications, microwave appliances, etc.
- ! Nuclear power generation: nuclear fuel, waste and other processes
- ! Crude oil production: “down-hole” instrumentation and naturally occurring radioactive materials (NORM)
- ! Chemical and plastics manufacturing: instrumentation and measuring devices.
- ! Welding and steel construction: radiographing (x-raying) of pipe welds and other construction uses.
- ! Medical facilities: x-rays and use of radioactive sources in various medical procedures

It is reasonable to assume that many of the graduates from the OSH&E degree program will find themselves in a workplace that will have radioactive and other radiation sources. They will be required to deal adequately with these sources at a level greater than that provided in our 100 and 200 level industrial hygiene courses. To deal with that eventuality, this course will provide the solid foundation for their eventual work.

#### COURSE DESCRIPTION:

This course describes and defines the various forms of ionizing and non-ionizing radiation and the methods that are used to detect, identify, and measure workplace levels of radiation. It also describes control methods which employ engineering methods, administrative methods, and personal protective equipment to eliminate or minimize the hazards posed by radiation.

#### OBJECTIVES:

At the completion of this course, students will be able to:

- ! Describe and identify the various forms of ionizing and non-ionizing radiation typically encountered in the workplace
- ! Describe the various hazards associated with exposures to ionizing and non-ionizing radiation
- ! Select and use the proper means and methods for detecting and identifying ionizing and non-ionizing radiation
- ! Select and use methods for measuring levels of ionizing and non-ionizing radiation
- ! Provide accurate analysis of potential hazards posed by detected levels of ionizing and non-ionizing radiation.
- ! Select and implement proper controls and countermeasures to protect workers and the public from the effects of ionizing and non-ionizing radiation

**PREREQUISITES:**

To be able to enroll in OSHE 442, Principles of Radiation Safety, students must have successfully completed OSHE 141, Introduction to Occupational Safety, Health and Environment; and PHYS 191 and PLAB 192.

**COURSE TEXT**

James E. Martin and Chul Lee. *Principles of Radiological Health and Safety*. Wiley-Interscience, 2003.

Appendix D  
**STUDENT TECHNOLOGY FEE  
Small Project Proposal**

**Signature Cover Sheet**

**PROPOSAL TITLE:**

*Improving Students' Knowledge and Skills of Using Safety-Related Instrument/Equipment*

**SUBMITTED BY  
PLEASE PRINT**

\_\_\_\_\_ *Lu Yuan* \_\_\_\_\_

**DEPARTMENT**

\_\_\_\_\_ *Computer Science and Industrial Technology* \_\_\_\_\_

**COLLEGE/DIVISION**

\_\_\_\_\_ *Science and Technology* \_\_\_\_\_

**DATE**

\_\_\_\_\_ *February 5, 2013* \_\_\_\_\_

**REQUESTED AMOUNT  
MINUS ANY MATCH**

\_\_\_\_\_ *\$4,909.55* \_\_\_\_\_

**AUTHORIZING SIGNATURES**

*Prepared by*

\_\_\_\_\_

*Department Head*

\_\_\_\_\_

*Dean or VP*

\_\_\_\_\_

**TO BE COMPLETED BY STUDENT TECH FEE PERSONNEL**

*Date Received*

\_\_\_\_\_

*Tech Fee Recommendation*

\_\_\_\_\_

*Tech Fee Recommendation Date:*

\_\_\_\_\_

*Notification Date:*

\_\_\_\_\_

*Provost*

\_\_\_\_\_

*Revised 01/27/12*

## **STUDENT TECHNOLOGY FEE Small Project Proposal**

Small Project Proposals will be accepted according to the following schedule:

Due second Monday in October (10/8/12) – College of Business, Department of Chemistry and Physics, Department of Mathematics, Extended Studies, Library, Academic Services, all other area reporting to the Provost and President not listed in the three groups.

Due first Monday in November (11/5/12) – College of Nursing and Health Sciences, College of Education and Human Development, ISAT, Division of Student Affairs, Finance and Administration, University Advancement, Department of Fine and Performing Arts, all other areas within the College of Science and Technology not listed in the three groups..

Due second Monday in February (2/11/13) – Department of Biological Sciences, Department of Computer Science and Industrial Technology, Department of English, Department of Languages and Communication, Department of History and Political Science, Department of Psychology, Department of Sociology and Criminal Justice, all other areas within the College of Arts, Humanities and Social Sciences not listed in the three groups, General Studies, Office of Technology.

If two or more proposals come from different departments within the same college, they must refer to the needs of each department. Any submission of similar proposals by the same or different departments in a college will be considered breaking a proposal to comply with the \$5,000 limit and will not be considered for funding.

Interested parties must complete the “Student Technology Fee—Small Project Proposal” application and the necessary coversheet with approvals. Please provide brief answers to each question. Funding will not be provided for personnel, student labor, furniture or consumable supplies. Any proposal that involves setting up a new lab, or setting up equipment in a new location should be reviewed by either Physical Plant or Facility Planning. Supporting documents showing approvals must be provided.

Submit completed and signed small project proposals to Dr. Mike Asoodeh, Chair, Student Technology Fee Committee, SLU 10569, McGehee Hall 215.

---

***The goal of the student technology fee is to provide opportunities to increase student access to technology and/or use technology in ways that would benefit student life and/or student scholarship and learning.***

### **1. Project Description and Objectives**

(A) *Briefly describe your proposal and state its objectives, noting how it will further the overall goal of the Student Technology Fee.*

The objectives of this proposal are to improve Occupational Safety, Health, and Environment (OSH&E) students’ knowledge and skills of using specific safety-related equipment, and to enhance OSH&E class teaching and student learning via interactive hands-on activities and practices. OSH&E is a practice-oriented field and requires students to successfully utilize various instrumentation and equipment associated with safety, health, and environment. Obtaining several pieces of proposed instrument/equipment including confined space entry system, electrical safety tester, lockout/tagout kits, etc., will provide great hands-on opportunities for the OSH&E students to learn and practice the usage and operation of safety-related instrument/equipment. This has proved to be much more effective to attain class objectives and program outcomes when compared to the traditional way of one-way lecturing in the classroom.

In addition, many of these instrument/equipment sets could be used in OSHE 111 Introduction to Occupational Safety and Health, and Environment, which both the Industrial Technology and Engineering Technology students are required to take. Because of this, those students will also benefit significantly from the demonstration of the instrument/equipment.

(B) *To what degree does your proposal augment systems already established within your department/college/division/existing university-wide systems?*

The OSH&E Bachelor of Science Degree Program recently received accreditation from ABET (Accreditation Board for Engineering and Technology) and became only the third Environmental, Health, and Safety, and similarly named program accredited by ABET Applied Science Accreditation Commission. One of the concerns that ABET addressed in the final statement of program evaluation is that "...evidence of securing access to relevant safety-related instrumentation and/or equipment" should be provided. Currently, we are lack of many important pieces of safety-related instrument/equipment. Therefore, it is imperative to purchase those proposed equipment and grant students the access to utilizing them, so that the sustainability of the ABET accreditation could be maintained.

## **2. Equipment, briefly respond to the following**

*(A) List/describe the equipment and/or other requested purchases.*

The list of proposed equipment includes:

- 1) Confined Space Entry System, which includes tripod and Salalift® II winch.
- 2) Earth Ground Tester Kit, Ground Resistance Range 0.15 to 2 k Ohms, Resolution 0.01 to 1 Ohms, Operating Frequency 128 Hz, Measuring Current Greater Than 50 mA, Earth Volts 250 AC, Backlit LCD Display, 1999 Counts, Power Supply 9 V, Standards CAT II 600 V. The kit includes (2) 6 Ft Leads with Alligator Clips, Battery, Yellow Holster, 25m Cable and Reel, 50m Cable and Reel, (3) Earth Stakes, Hard Carrying Case and Instructions.
- 3) GFCI (Ground-Fault Circuit Interrupter) Cord Sets, which include 2 ft tri cord, inline cord set, single outlet adapter, inline, and quad box.
- 4) Premium Lockout Kit, which includes Carrying Case, (3) Blue Steel Padlocks, (3) 1-1/2" Steel Jaw Dia. Hasps, (2) Single Pole Electrical Breaker Lockouts, (3) Multiple Electrical Breaker Lockouts, Large Electrical Plug Lockout, 1 to 2-1/2" Gate Valve Lockout, 2-1/2 to 5" Gate Valve Lockout, Wall Switch Lockout, Lockout Cable Device, AC Voltage Detector Pen, (5) 3x5" SS "Lockout Here" Signs, (5) 3x5" SS "Lockout Before Servicing" Signs.

*(B) Explain how the equipment will be used.*

The instrument/equipment will be used in teaching of pertinent OSHE classes such as OSHE 111 Introduction to Occupational Safety and Health, and Environment, OSHE 112 Design of Hazard Controls, OSHE 141 Principles of Industrial Hygiene & Toxicology, OSHE 341 Field Methods of Industrial Hygiene and Toxicology, etc., as well as in student research where the instrument/equipment is necessary for testing and data collection.

*(C) Where will the equipment be located?*

The instrument/equipment will be located in Anzalone 215, which is dedicated to the OSH&E program.

*(D) Who will be responsible for safety and security?*

The OSH&E faculty will be responsible for safety and security of the proposed instrument/equipment.

*(E) How will equipment be maintained?*

Extreme care, calibration, and regular maintenance will be performed on the instrument/equipment according to the manufacturers' instruction manuals.

## **3. Students Impacted**

*(A) How many students annually would be impacted by your proposal?*

Approximately 100 OSH&E students as well as all IT and ET students (about 450) would be impacted by this proposal. The OSH&E program is steadily growing with a large cohort of approximately 80 students currently enrolled in the introductory OSHE 111 course this Spring 2013 semester alone. The number of students using this equipment each semester will steadily increase over the next several years. Furthermore, we are currently developing three minors in OSH&E which we predict will be very popular since a minor in OSH&E can complement so many other degrees. Once approved, these minors will enable many non-OSH&E students to also utilize the proposed instrument/equipment.

*(B) What students would be impacted by your proposal?*

Primarily OSH&E students and also all IT and ET students could be impacted by this proposal.

*(C) What specific short term and long term benefits would your proposal provide to Southeastern students?*



The short term benefits of this proposal include increased and improved hands-on activities and practices for OSH&E students for enhancement of knowledge and skills on pertinent safety instrument/equipment. In the long term, this proposal ensures the quality and competency of OSH&E students and adds the value of necessary and continuous improvement for the OSH&E program to maintain the ABET accreditation.

**4. Financial Information**

(A) How much does your proposal cost?

The proposal costs \$4,909.55.

(B) Outline costs by budget categories of equipment, supplies, software, and miscellaneous.

Instrument/Equipment	Quantity	Price	Link
DBI/SALA® Portable Confined Space Entry System Complete With Salalift® II Winch and Lightweight 7' Aluminum Tripod	1	\$2,705.00	<a href="http://www.airgas.com/browse/productDetail.aspx?Category=356&amp;product=D628300030">http://www.airgas.com/browse/productDetail.aspx?Category=356&amp;product=D628300030</a>
Earth Ground Tester Kit, 128 Hz, 250VAC	1	\$1,620.00	<a href="http://www.grainger.com/Grainger/FLUKE-Earth-Ground-Tester-Kit-4JNW2?Pid=search">http://www.grainger.com/Grainger/FLUKE-Earth-Ground-Tester-Kit-4JNW2?Pid=search</a>
GFCI, 2 Ft Tri Cord	1	\$63.75	<a href="http://www.grainger.com/Grainger/POWER-FIRST-GFCI-5YL45?Pid=search">http://www.grainger.com/Grainger/POWER-FIRST-GFCI-5YL45?Pid=search</a>
Inline GFCI Cord Set	1	\$66.10	<a href="http://www.grainger.com/Grainger/POWER-FIRST-Inline-GFCI-Cord-Set-5YL47?Pid=search">http://www.grainger.com/Grainger/POWER-FIRST-Inline-GFCI-Cord-Set-5YL47?Pid=search</a>
Single Outlet GFCI Adapter, 15 Amps, 120V	1	\$29.55	<a href="http://www.grainger.com/Grainger/POWER-FIRST-Single-Outlet-GFCI-Adapter-5YL43?Pid=search">http://www.grainger.com/Grainger/POWER-FIRST-Single-Outlet-GFCI-Adapter-5YL43?Pid=search</a>
GFCI, Inline, 20 A	1	\$71.15	<a href="http://www.grainger.com/Grainger/POWER-FIRST-Inline-GFCI-5YL46?Pid=search">http://www.grainger.com/Grainger/POWER-FIRST-Inline-GFCI-5YL46?Pid=search</a>
GFCI Quad Box, 15 A	1	\$154.25	<a href="http://www.grainger.com/Grainger/POWER-FIRST-GFCI-Quad-Box-5YL44?Pid=search">http://www.grainger.com/Grainger/POWER-FIRST-GFCI-Quad-Box-5YL44?Pid=search</a>
Premium Lockout Kit	1	\$199.75	<a href="http://www.grainger.com/Grainger/PRINZING-Premium-Lockout-Kit-3ZM53?Pid=search">http://www.grainger.com/Grainger/PRINZING-Premium-Lockout-Kit-3ZM53?Pid=search</a>
Total		\$4,909.55	

(C) What match will be provided? Explain.

None.

## Appendix E

## Response Summary

Total Started Survey: 8  
Total Finished Survey: 8 (100%)

PAGE: 1

1. Please provide the following information about yourself. All responses will be kept in the strictest confidence. [Download](#)

	Response Percent	Response Count
<b>Your Name</b> <a href="#">Show Responses</a>	100.0%	8
<b>Name of Organization</b> <a href="#">Show Responses</a>	100.0%	8
<b>Job Position</b> <a href="#">Show Responses</a>	100.0%	8
<b>Major Responsibility</b> <a href="#">Show Responses</a>	100.0%	8
<b>Mailing Address</b> <a href="#">Show Responses</a>	100.0%	8
<b>Telephone Number</b> <a href="#">Show Responses</a>	100.0%	8
<b>Email Address</b> <a href="#">Show Responses</a>	100.0%	8
	<b>answered question</b>	<b>8</b>
	<b>skipped question</b>	<b>0</b>

2. Which category best describes the type of organization in which you are employed? [Create Chart](#) [Download](#)

	Response Percent	Response Count
<b>Business</b>	14.3%	1
<b>Construction/Maintenance/Structural</b>	28.6%	2
<b>Education</b>	0.0%	0
<b>Government/Military</b>	0.0%	0
<b>Healthcare</b>	0.0%	0
<b>Insurance company</b>	14.3%	1
<b>Manufacturing/Process/Refinery</b>	42.9%	3
<b>Nonprofit organization</b>	0.0%	0
<b>Recycling</b>	0.0%	0
<b>Retail/Warehouse</b>	0.0%	0
<b>Self-employed or private practice</b>	0.0%	0
<b>Shipyard</b>	0.0%	24
<b>Transportation/Distribution</b>	0.0%	0

Shipyard	0.0%	0
Transportation/Distribution	0.0%	0
Other (please specify) <a href="#">Show Responses</a>		1
<b>answered question</b>		<b>7</b>
<b>skipped question</b>		<b>1</b>
3. Number of employees		<a href="#">Download</a>

	Response Percent	Response Count
<b>In your organization (world-wide if applicable)</b> <a href="#">Show Responses</a>	<b>100.0%</b>	<b>8</b>
<b>In your division (local)</b> <a href="#">Show Responses</a>	87.5%	7
<b>OSH&amp;E related</b> <a href="#">Show Responses</a>	87.5%	7
<b>answered question</b>		<b>8</b>
<b>skipped question</b>		<b>0</b>

4. The following is the current statement of the OSH&E program objectives. Please [Create Chart](#) [Download](#) tell us according to your experience whether our program meets each of the four objectives and provide us your suggestions should it be revised.

	Agree	Don't Know	Disagree	Not Applicable	Rating Count
<b>1) Apply knowledge and principles of mathematics, science, technology, and management in industry, business, or other related areas of employment as occupational safety, health, and environment professionals</b>	<b>100.0% (8)</b>	0.0% (0)	0.0% (0)	0.0% (0)	8
<b>2) Apply practical-oriented knowledge and skills in safety, health, and environment to anticipate, identify and evaluate hazardous conditions and practices, to develop hazard control designs, methods, procedures and programs, and to implement and manage effective safety, health, and environment programs</b>	<b>100.0% (8)</b>	0.0% (0)	0.0% (0)	0.0% (0)	8
<b>3) Become effective communicators and ethical facilitators within the practice of safety, health, and environment</b>	<b>100.0% (8)</b>	0.0% (0)	0.0% (0)	0.0% (0)	8
<b>4) Continue professional development to address the need of applying principles of safety, health, and environment within a constantly changing and increasingly diverse environment</b>	<b>100.0% (8)</b>	0.0% (0)	0.0% (0)	0.0% (0)	8
<b>answered question</b>					<b>8</b>
<b>skipped question</b>					<b>0</b>

5. On a scale of 1 through 5, where 1 means Not Important at All and 5 means Very Important, please indicate how important each area of competency is to the Southeastern OSH&E graduate's job. [Create Chart](#) [Download](#)

5. On a scale of 1 through 5, where 1 means NOT important at All and 5 means very Important, please indicate how important each area of competency is to the Southeastern OSH&E graduate's job.

[Create Chart](#) [Download](#)

	1	2	3	4	5	Not Applicable	Rating Count
<b>Ability to apply basic mathematical and statistical knowledge in the safety, health, and environment field</b>	0.0% (0)	0.0% (0)	12.5% (1)	37.5% (3)	<b>50.0% (4)</b>	0.0% (0)	8
<b>Understanding basic principles in chemistry, physics, and biology as it pertains to the practice of safety, health, and environment</b>	0.0% (0)	12.5% (1)	25.0% (2)	<b>37.5% (3)</b>	25.0% (2)	0.0% (0)	8
<b>Understanding basic principles in business management as it pertains to the practice of safety, health, and environment</b>	0.0% (0)	0.0% (0)	0.0% (0)	37.5% (3)	<b>62.5% (5)</b>	0.0% (0)	8
<b>Ability to understand occupational safety, health, and environment fundamentals</b>	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	<b>87.5% (7)</b>	0.0% (0)	8
<b>Ability to know legal aspects of safety, health, and environmental practices</b>	0.0% (0)	0.0% (0)	0.0% (0)	37.5% (3)	<b>62.5% (5)</b>	0.0% (0)	8
<b>Understanding the interactions of physical, chemical, biological, and ergonomic agents, factors, and/or stressors on the human body</b>	0.0% (0)	12.5% (1)	12.5% (1)	<b>50.0% (4)</b>	25.0% (2)	0.0% (0)	8
<b>Understanding the application of laws, regulations, standards, and codes to safety, health and environmental conditions</b>	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	<b>100.0% (8)</b>	0.0% (0)	8
<b>Ability to understand and use basic principles of fire prevention and protection in the workplace</b>	0.0% (0)	0.0% (0)	12.5% (1)	25.0% (2)	<b>62.5% (5)</b>	0.0% (0)	8
<b>Ability to know industrial and construction safety throughout the work processes</b>	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	<b>87.5% (7)</b>	0.0% (0)	8
<b>Ability to utilize basic laboratory instrumentations associated with safety, health, and environment</b>	0.0% (0)	12.5% (1)	25.0% (2)	<b>50.0% (4)</b>	12.5% (1)	0.0% (0)	8
<b>Ability to anticipate, identify and evaluate hazardous agents, conditions, and practices</b>	0.0% (0)	0.0% (0)	0.0% (0)	14.3% (1)	<b>85.7% (6)</b>	0.0% (0)	7
<b>Understanding fundamental exposure assessment and environmental sampling techniques</b>	0.0% (0)	0.0% (0)	12.5% (1)	<b>75.0% (6)</b>	12.5% (1)	0.0% (0)	8
<b>Ability to develop control designs, methods, procedures, and programs to eliminate or mitigate safety, health, and environmental hazards</b>	0.0% (0)	0.0% (0)	12.5% (1)	12.5% (1)	<b>75.0% (6)</b>	0.0% (0)	8
<b>Ability to conduct accident/incident investigation and analysis</b>	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	<b>87.5% (7)</b>	0.0% (0)	8
<b>Ability to implement and manage effective safety, health, and environment programs</b>	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	<b>100.0% (8)</b>	0.0% (0)	8
<b>Ability to effectively express thoughts in oral and written communications</b>	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	<b>100.0% (8)</b>	0.0% (0)	8
<b>Understanding the techniques, skills, and modern behavioral tools necessary for the practice of safety, health, and environment</b>	0.0% (0)	0.0% (0)	0.0% (0)	25.0% (2)	<b>75.0% (6)</b>	0.0% (0)	8
<b>Ability to effectively function as a part of multi-disciplinary team</b>	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	<b>100.0% (8)</b>	0.0% (0)	8

26

answered question

8

8/1/2013 4:17 PM

part of main competency team	(%)	(%)	(%)	(%)	(%)	
<b>answered question</b>						<b>8</b>
<b>skipped question</b>						<b>0</b>

6. On a scale of 1 through 5, where 1 means Poor and 5 means Excellent, please indicate the level of the Southeastern OSH&E graduate's competency in that area. [Create Chart](#) [Download](#)

	1	2	3	4	5	Not Applicable	Rating Count
<b>Ability to apply basic mathematical and statistical knowledge in the safety, health, and environment field</b>	0.0% (0)	0.0% (0)	12.5% (1)	<b>75.0% (6)</b>	12.5% (1)	0.0% (0)	8
<b>Understanding basic principles in chemistry, physics, and biology as it pertains to the practice of safety, health, and environment</b>	0.0% (0)	0.0% (0)	37.5% (3)	<b>62.5% (5)</b>	0.0% (0)	0.0% (0)	8
<b>Understanding basic principles in business management as it pertains to the practice of safety, health, and environment</b>	0.0% (0)	12.5% (1)	25.0% (2)	25.0% (2)	<b>37.5% (3)</b>	0.0% (0)	8
<b>Ability to understand occupational safety, health, and environment fundamentals</b>	0.0% (0)	12.5% (1)	0.0% (0)	37.5% (3)	<b>50.0% (4)</b>	0.0% (0)	8
<b>Ability to know legal aspects of safety, health, and environmental practices</b>	0.0% (0)	0.0% (0)	25.0% (2)	25.0% (2)	<b>50.0% (4)</b>	0.0% (0)	8
<b>Understanding the interactions of physical, chemical, biological, and ergonomic agents, factors, and/or stressors on the human body</b>	0.0% (0)	12.5% (1)	25.0% (2)	<b>50.0% (4)</b>	12.5% (1)	0.0% (0)	8
<b>Understanding the application of laws, regulations, standards, and codes to safety, health and environmental conditions</b>	0.0% (0)	0.0% (0)	12.5% (1)	<b>62.5% (5)</b>	25.0% (2)	0.0% (0)	8
<b>Ability to understand and use basic principles of fire prevention and protection in the workplace</b>	0.0% (0)	0.0% (0)	12.5% (1)	<b>62.5% (5)</b>	25.0% (2)	0.0% (0)	8
<b>Ability to know industrial and construction safety throughout the work processes</b>	0.0% (0)	12.5% (1)	0.0% (0)	<b>50.0% (4)</b>	37.5% (3)	0.0% (0)	8
<b>Ability to utilize basic laboratory instrumentations associated with safety, health, and environment</b>	0.0% (0)	12.5% (1)	25.0% (2)	<b>50.0% (4)</b>	0.0% (0)	12.5% (1)	8
<b>Ability to anticipate, identify and evaluate hazardous agents, conditions, and practices</b>	0.0% (0)	0.0% (0)	<b>50.0% (4)</b>	12.5% (1)	37.5% (3)	0.0% (0)	8
<b>Understanding fundamental exposure assessment and environmental sampling techniques</b>	0.0% (0)	12.5% (1)	12.5% (1)	<b>50.0% (4)</b>	12.5% (1)	12.5% (1)	8
<b>Ability to develop control designs, methods, procedures, and programs to eliminate or mitigate safety, health, and environmental hazards</b>	0.0% (0)	0.0% (0)	<b>50.0% (4)</b>	25.0% (2)	25.0% (2)	0.0% (0)	8
<b>Ability to conduct accident/incident investigation and analysis</b>	0.0% (0)	0.0% (0)	37.5% (3)	12.5% (1)	<b>50.0% (4)</b>	0.0% (0)	8
<b>Ability to implement and manage effective safety, health, and environment programs</b>	0.0% (0)	0.0% (0)	25.0% (2)	<b>37.5% (3)</b>	<b>37.5% (3)</b>	0.0% (0)	8
<b>Ability to effectively express thoughts in oral and written communications</b>	0.0% (0)	12.5% (1)	25.0% (2)	<b>37.5% (3)</b>	25.0% (2)	0.0% (0)	27
<b>Understanding the techniques, skills, and methods to be utilized to test</b>	0.0%		25.0%	<b>37.5%</b>	<b>37.5%</b>		

thoughts in oral and written communications	(0)	(1)	(2)	(3)	(2)	0.0% (0)	8
Understanding the techniques, skills, and modern behavioral tools necessary for the practice of safety, health, and environment	0.0% (0)	0.0% (0)	25.0% (2)	37.5% (3)	37.5% (3)	0.0% (0)	8
Ability to effectively function as a part of multi-disciplinary team	0.0% (0)	0.0% (0)	25.0% (2)	0.0% (0)	75.0% (6)	0.0% (0)	8
<b>answered question</b>							<b>8</b>
<b>skipped question</b>							<b>0</b>

7. On a scale of 1 through 5, where 1 means Not Important at All and 5 means Very Important, please indicate the importance of the following courses in the current Southeastern OSH&E Bachelor of Science curriculum. Details of the course content are available at <http://goo.gl/6nnC5>. [Create Chart](#) [Download](#)

	1	2	3	4	5	Not Applicable	Rating Count
OSHE 111 Introduction to Occupational Safety and Health [Introduction to Safety and Health]	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	87.5% (7)	0.0% (0)	8
OSHE 112 Design of Hazard Controls	0.0% (0)	0.0% (0)	12.5% (1)	12.5% (1)	75.0% (6)	0.0% (0)	8
OSHE 121 Safety and Health Program Management and Administration	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	87.5% (7)	0.0% (0)	8
OSHE 141 [OSHE 241] Principles of Industrial Hygiene	0.0% (0)	0.0% (0)	25.0% (2)	12.5% (1)	62.5% (5)	0.0% (0)	8
OSHE 231 Safety Laws, Regulations, and Standards	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	87.5% (7)	0.0% (0)	8
OSHE 242 Ergonomics	0.0% (0)	0.0% (0)	0.0% (0)	75.0% (6)	25.0% (2)	0.0% (0)	8
OSHE 251 Environmental Laws and Practices	0.0% (0)	12.5% (1)	12.5% (1)	37.5% (3)	37.5% (3)	0.0% (0)	8
OSHE 261 Fire Protection and Prevention	0.0% (0)	0.0% (0)	0.0% (0)	25.0% (2)	75.0% (6)	0.0% (0)	8
OSHE 311 Safety and Health Program Development	0.0% (0)	0.0% (0)	0.0% (0)	25.0% (2)	75.0% (6)	0.0% (0)	8
OSHE 322 Behavior Aspects of Safety	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	100.0% (8)	0.0% (0)	8
OSHE 323 Product Safety and Liability	0.0% (0)	12.5% (1)	12.5% (1)	50.0% (4)	25.0% (2)	0.0% (0)	8
OSHE 341 Field Methods of Industrial Hygiene and Toxicology	0.0% (0)	12.5% (1)	0.0% (0)	50.0% (4)	37.5% (3)	0.0% (0)	8
OSHE 381 [OSHE 281] Safety in Chemical and Process Industries	0.0% (0)	12.5% (1)	0.0% (0)	25.0% (2)	62.5% (5)	0.0% (0)	8
OSHE 382 [OSHE 282] Construction Safety	0.0% (0)	0.0% (0)	12.5% (1)	25.0% (2)	62.5% (5)	0.0% (0)	8
OSHE 421 [OSHE 321] Measurement of Safety Performance and Accident Investigation and Analysis	0.0% (0)	0.0% (0)	0.0% (0)	12.5% (1)	87.5% (7)	0.0% (0)	8
OSHE 424 [OSHE 324] System Safety Methodologies	0.0% (0)	0.0% (0)	0.0% (0)	25.0% (2)	75.0% (6)	0.0% (0)	8
OSHE 441 Industrial Toxicology	0.0% (0)	0.0% (0)	12.5% (1)	62.5% (5)	25.0% (2)	0.0% (0)	8
OSHE 451 Hazardous Materials Management [Industrial Waste Management]	0.0% (0)	12.5% (1)	0.0% (0)	12.5% (1)	75.0% (6)	0.0% (0)	8



<b>OSHE 451 Hazardous Materials Management [Industrial Waste Management]</b>	0.0% (0)	12.5% (1)	0.0% (0)	12.5% (1)	<b>75.0% (6)</b>	0.0% (0)	8
<b>OSHE 452 Pollution Fundamentals and Control Technologies</b>	0.0% (0)	12.5% (1)	12.5% (1)	<b>37.5% (3)</b>	<b>37.5% (3)</b>	0.0% (0)	8
<b>OSHE 471 [OSHE 371] Education and Training Methods for Occupational Safety and Health</b>	0.0% (0)	0.0% (0)	0.0% (0)	25.0% (2)	<b>75.0% (6)</b>	0.0% (0)	8

**answered question 8**

**skipped question 0**

8. In addition to the OSHE courses listed above, our OSH&E program also requires students to take [Download](#) courses in English, Mathematics, Natural Science, Computer Science, and Business, etc. Based on your professional experience, please suggest any other courses or concepts that should be incorporated in the curriculum to meet current and future needs of safety, health, and environment.

Response

Count

[Show Responses](#) 6

**answered question 6**

**skipped question 2**

9. Are the Southeastern OSH&E graduates employed in positions where you would encourage or require them to hold licensure/certification in the safety, health, and environment field? If yes, please list type(s) of licensure/certification recommended or required. [Download](#)

Response

Count

[Show Responses](#) 8

**answered question 8**

**skipped question 0**

10. Does your organization regularly recruit Southeastern OSH&E graduates? Would your organization hire Southeastern OSH&E graduates in the future? Please also write down any other comments and/or suggestions for the OSH&E program. [Download](#)

**answered question 8**

**skipped question 0**

## Appendix F



Lu Yuan &lt;lu.yuan@selu.edu&gt;

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**Occupational Safety, Health and Environment Spring 2013 Newsletter**

3 messages

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**Southeastern's Occupational Safety, Health and Environment** <Lu.Yuan@selu.edu>

Tue, Apr 23, 2013 at 8:55 AM

To: "Lu.Yuan@selu.edu" &lt;Lu.Yuan@selu.edu&gt;



Southeastern's Occupational Safety, Health and Environment Newsletter

Spring 2013

Dear Alumni,

We are pleased to share our Spring 2013 OSHE newsletter with you. We will periodically send you information about upcoming events, alumni news and achievements, student achievements, faculty news, and job openings.

Sincerely,  
Dr. Lu Yuan

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**In this issue:**

[Graduation Ceremony](#) • [Alumni Updates](#) • [Student Achievements](#) • [Faculty News](#) • [Job Opportunities](#)

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**Graduation Ceremony - You are Invited!**

Southeastern OSH&E Spring 2013 Graduation Celebration  
Friday, May 17, 2013  
5:30 - 8:00 PM

You are cordially invited to our OSH&E Spring 2013 Graduation Ceremony, which is scheduled on Friday May 17, 2013 from 5:30 PM to 8:00 PM at Trey Yuen Hammond, <http://www.treyyuen.com/>. At the party, Mr. John Hodges, the Board of Certified Safety Professionals (BCSP) representative, will present the Graduate Safety Practitioner Certificates to the ten OSH&E Spring 2013 graduates. We have also invited representatives from the Greater Baton Rouge Chapter of ASSE, the CSIT Department Head, as well as some other colleagues and friends to celebrate the achievements with the graduates. You may sponsor the ceremony or set up an information table about your company, especially if it is hiring. Also feel free to bring any guests. There is a minimum charge for attendance. RSVP to Dr. Lu Yuan at [Lu.Yuan@selu.edu](mailto:Lu.Yuan@selu.edu) or [985-549-3838](tel:985-549-3838) ASAP!

**Alumni Updates**

**Mr. Kory Krista**, an OSH&E Spring 2007 graduate and Director of Facility Operations at Fairway Medical Surgical Hospital in Covington Louisiana, has recently advanced to an expanded role of creating and managing an effective Occupational Medicine and Drug Collection program for the local business community. Fairway Medical Surgical Hospital has become the first hospital in the state of Louisiana to become ISO 9001 certified. The requirements to achieve compliance in this stringent Quality Management System will continue to insure a safe environment of care for their patients and employees.

**Mr. Jeremy Spears**, an OSH&E Fall 2009 graduate and Senior Safety Engineer for Bechtel OG&C Inc., earned his CSP in December 2012. Jeremy Mobilized in March 2013 to Lumut, Perak, Malaysia to build the ISBL (Inside Battery Limits) modules for Chevron's Wheatstone LNG Project in Onslow, Australia. Total peak manpower for the project is approximately 4,000. It is estimated to be 60 million man-hours over three years.

**Mr. JD Lavergne**, an OSH&E Spring 2011 graduate, received sincere appreciation for all of his efforts and contributions he specifically made during the construction of the KPL Helena Facility. The letter written by Ruben "Sonny" Smithwick, KPL Third Party Projects Safety / Shafer HSE Services Manager and John L. Fort, KPL Safety & Health Specialist reads:

"When we first arrived in this facility there were over 150 contractor personnel and we figured there would be at least three HSE support professionals, but you were the only HSE contract rep on site. After evaluating the project it became obvious that your efforts and expertise far exceeded what we were expecting. After working with you these last few months, we realized that it was through your expertise and professionalism that the general contractor you work for was able to fulfill such and impressive safety record within such a complicated and sometimes dangerous work environment."

**Mr. Jeffrey Zeringue**, an OSH&E Fall 2011 graduate, recently received a promotion as Health and Safety Manager at Western Refinery's Gallup Refinery outside of Gallup New Mexico and completed Radiation Safety Officer training in May of 2012.

### **Student Achievements**

Five OSH&E Fall 2012 graduates, **Mr. Stephen Justin Barksdale**, **Mr. Jace Guerin**, **Mr. Michael Kreko**, **Ms. Katie Jackson**, and **Mr. Eric Miller**, were recognized and presented with the GSP certificates at the OSH&E Fall 2012 Graduation Ceremony on December 7, 2012.

**Mr. Ethan Reames**, an OSH&E Spring 2013 graduating senior and the 2012-2013 ASSE Student Section President, was named as a charter member of ASSE's new Student Strategy Task Force in February 2013.

**Ms. Laura Vasut**, an IT AAS in OSH&E Spring 2013 graduating senior and the 2012-2013 ASSE Student Section Secretary, was selected to present at the University of Louisiana Academic Summit in Monroe, LA, April 12-13, 2013. The poster is entitled "Implementation of an Air Quality Improvement Program in a Public School System: A Case Review of Successes and Failures."

**Mr. Christopher Cole Bass**, an OSH&E senior, won the 2013 ASSE Foundation Granberry, Fleming, & Ross Scholarship.

**Mr. Quinn Leblanc**, an OSH&E Spring 2013 graduating senior, won the 2013 ASSE Foundation Greater Baton Rouge Chapter Don Jones Excellence in Safety Scholarship.

### **Faculty News**

**Dr. Ephraim Massawe** will organize the first national workshop on applications of nanotechnology for safe and sustainable environmental remediation at Southeastern Louisiana University June 5-7, 2013. The event, "Nano-4-Rem-Anssers 2013: Applications of Nanotechnology for Safe and Sustainable Environmental Remediations," is one of the first of its kind in the Southeast which has been designed to provide an opportunity for involved parties to share perspectives, pose questions and develop ideas for generating solid guidelines for best work practices that support safe and sustainable nano-enabled environmental remediation. Additional details on the program and registration information can be found on the conference website [www.southeastern.edu/nano-4-rem-anssers](http://www.southeastern.edu/nano-4-rem-anssers)

**Dr. Lu Yuan** was invited to review a proposal for a new edition book entitled "Occupational Ergonomics: Work Related Musculoskeletal Disorders of the Upper Limb and Back, Second Edition" for CRC Press in December 2012.

**Job Opportunities**

Here are some opportunities for OSH&E majors in Southeastern Office of Career Services database:

- **Safety Engineer**, Axiall Corporation, salary dependent on qualifications, deadline: 05/04/2013
- **Project Services Coordinator**, Performance Contractors, Inc., salary dependent on qualifications, deadline: 05/06/2013
- **Environmental Analyst**, Entec Services, Inc, salary dependent on qualifications, deadline: 05/13/2013
- **Environmental Compliance Stormwater Specialist**, CEMML, salary amount: \$38,000 to \$42,000 (Depends on Qualifications) deadline: 06/21/2013
- **NEPA Management Technical Assistant**, CEMML, salary range: \$35,000 - \$42,000 (Depends on Qualifications) , deadline: 06/21/2013

In order to apply for these positions, students will need to create an account in eRecruiting, a job assistance database, which can be found at this link - <http://selu.experience.com>. There are a much larger number of jobs posted in eRecruiting for students and alumni to review and apply for (should they meet the qualifications). All of our posted job opportunities are available to students and alumni 24/7. Students and alumni can access these jobs by creating an account or logging on to their existing account in eRecruiting. Additionally, by uploading and keeping a current copy of their resume in eRecruiting, students and alumni can participate in the Resume Referral service (for full-time positions). Employers with job vacancies will request graduating senior and alumni resumes from the Office of Career Services. They then forward to the employer resumes from eRecruiting that match the job vacancy qualifications. The employer will then contact those students and alumni they wish to interview.

Students are encouraged to create an account with the Office of Career Services through eRecruiting, upload a current resume, search job opportunities and most importantly apply for positions (especially these positions) within this system.

If anyone has any questions about the Office of Career Services, services or eRecruiting, please do not hesitate to contact the office at [careerservices@selu.edu](mailto:careerservices@selu.edu) or 985-549-2121.

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**Lu Yuan** <lu.yuan@selu.edu> Tue, Apr 23, 2013 at 3:48 PM  
To: Sebastian Van delden <Sebastian.VanDelden@selu.edu>, Ephraim Massawe <emassawe@selu.edu>, Amanda Brown <Amanda.Brown-6@selu.edu>, Lawrence Mauerman <lmauerman@selu.edu>, "Steven P. Pereira" <spereira@professionalsafety.com>

FYI.

Enjoy,  
[Quoted text hidden]  
--

Lu Yuan, Sc.D., Assistant Professor  
Occupational Safety, Health, and Environment (OSH&E)  
Department of Computer Science and Industrial Technology

Southeastern Louisiana University  
SLU 10847  
Hammond, LA 70402  
Phone: 985-549-3838  
Fax: 985-549-5532  
Email: [Lu.Yuan@selu.edu](mailto:Lu.Yuan@selu.edu)  
<http://www2.selu.edu/Academics/Faculty/lyuan/>

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**Lu Yuan** <lu.yuan@selu.edu> Tue, Apr 23, 2013 at 3:50 PM