

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

July 28, 2015

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 24, 2015. Please feel free to let us know should you have any questions and comments!

Our first meeting for the upcoming 2015-2016 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 continued contribution to the program!

Sincerely,

Dr. Lu Yuan, CSP

Interim Department Head &

Associate Professor

Ms. Dorinda Folse

OSH&E AC Chairperson

Mr. Lance Roux, CSP

OSH&E AC Co-Chairperson

OSH&E Advisory Committee April 24, 2015 Meeting Report by 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 24, 2015 in Southeastern Livingston Parish Literacy and Technology Center room 119. (Please see the attached examples of photos!) The attendees include nine of the twenty OSH&E Advisory Committee members (**Appendix A** with update-to-date contact information). Drs. Lu Yuan and Ephraim Massawe were co-hosts of the meeting. Dr. Sebastian Van Delden, the CSIT Department Head, attended the meeting. Two OSH&E student including Leiah Roberts and Brennen Waguespack were present. One guest, Chris Newton, was in attendance. Absent were Steve Pereira, Don Jones, James Kerr, Beth Inbau, Dawn Bahm, Alan Rovira, David Noland, Michael Page, Paul Higdon, Donny Latiolais, and Andy Kovacs.

Appendix B contains the agenda of the meeting, which started with the welcoming from Ms. Dorinda Folse and Mr. Lance Roux. As usual, Ms. Folse briefed the members with the OSHA update. She called silence for Workers' Memorial Day which is on April 28, 2015. Mr. Roux then congratulated both the OSH&E program and Dr. Yuan for their achievements. Next, Dr. van Delden presented the leadership change in the CSIT Department as he would be leaving Southeastern in the end of June and Dr. Yuan would serve as the Interim Department Head. He also briefed the members with the status of the new Science and Technology building which was expected to break ground in 2015. Sebastian also explained that more instructors for the CSIT Department were needed with both several faculty members retiring/leaving and the enrollments increasing. Self introductions were followed.

OLD BUSINESS

The first item under old business is equipment acquisition and usage. Dr. Massawe presented to the attendees that all requested equipment and instruments have been purchased through the \$25,000 grant from the AADE New Orleans Chapter at the end of 2014. The new acquisitions have helped with the instruction of the classes, especially OSHE 341 *Field Methods of Industrial Hygiene and Toxicology*, tremendously.

Dr. Yuan then briefly explained the current status of the OSHE new course offerings in Spring 2015. Neither of the two newly approved professional electives including OSHE 423 *Insurance - Workers' Compensation, Loss Control and Risk Management* and OSHE 442 *Principles of Radiation Safety* were able to be offered due to low enrollment. Several meeting attendees made some comments/suggestions:

- ➤ Mr. Rick Saizan suggested that the OSH&E program should reach out to the Baton Rouge Area Mutual Aid System, http://www.bramas.org/, for potential co-offering of the pertinent classes.
- ➤ Mr. Chris Newton discussed the importance of reaching out to industry and high schools as well as craft training.
- > Dr. Massawe requested for facility tour and collaboration with EPA on environmental studies.

Next, Dr. Yuan presented a number of OSH&E student and faculty achievements, which have been included in the OSH&E Spring 2015 Newsletter that was sent out to all OSH&E graduates, students, Advisory Committee members, and other colleagues and friends on Apr.23, 2015. The newsletter is also available at http://goo.gl/jlleVG. The achievements include:

- ➤ Mr. Keaton Northington, ASSE Student Section President 2014-2015, received the 2015 ASSE Foundation Greater Baton Rouge Chapter Don Jones Excellence in Safety Scholarship.
- ➤ Ms. Melanie Verdin, ASSE Student Section Treasurer Spring 2015 and an OSH&E Spring 2015 Graduate Candidate, received the 2015 ASSE Foundation ISNetworld Scholarship and Spring 2015 GBRASSE Scholarship.
- ➤ Mr. Brennen Waguespack received Spring 2015 GBRASSE Scholarship.
- ➤ Mr. Zachary Smith received Spring 2015 GBRASSE Scholarship.
- ➤ Ms. Leiah Roberts received Spring 2015 Linda Sullivan Scholarship.
- ➤ Mr. Jonathan Monistere, an OSH&E Spring 2015 graduate candidate, was selected for the 2015 OSH&E Outstanding Graduating Senior Award.
- > Dr. Lu Yuan was selected for the ASSE 2015 Outstanding Safety Educator Award, http://goo.gl/POjTIy and http://goo.gl/POjTIy and http://goo.gl/ZAAfBT.

NEW BUSINESS

The first and foremost item under new business is OSHE course syllabus examination (**Appendix C**). The course examination request letter, instruction, and all OSHE course syllabi have been sent to all committee members on February 12, 2015. 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:

- OSHE 111: Mr. Rick Saizan commented that the class needs to be more practical and address true cause of accident.
- OSHE 112: Everything seems to be fine.
- OSHE 121: Mr. Don Jones commented that the syllabus is excellent. Mr. Trey Rivet suggested that practical application be added.
- OSHE 141: Mr. Charles Leonard commented that "I am not so familiar with this class; the syllabus appears appropriate. Consider combining Module 3 & 4 and identifying them as mandatory elements (rather than optional), include sensitization and nonionizing radiation. Much of this may already have been covered in Module 2. Consider moving controls from Module 1 to the last module."
- OSHE 231: Mr. Buddy Mincey Jr. asked: 1) Are punitive / accountability issues covered in course? and 2) How does non-compliance affect business model (TRIR, EMR, job pre-qualifications, etc.)? He also suggested the course should cover: 1) Direct and indirect cost of incidents/accidents; and 2) obstacles with workforce compliance.
- OSHE 242: Mr. Lance Roux commented that the text is outdated. He recommended adding supplemental text that includes more relevant material.
- OSHE 251: Ms. Dawn Bahm "reviewed the attached syllabi and I find the outline, materials and assignments to be appropriate for both the OSHE 251 and OSHE 424. I do see some minor typographical errors on the syllabi and the SELU Course Objectives, but I wasn't sure you were looking for that kind of review. I'll be glad to make notations

on that if needed." Mr. Donny Latiolais felt that the syllabus is good. Mr. Glenn Young commented that "although the course covers environmental law well, it may not adequately prepare students for environmental compliance (which is what the employer will expect from them)." He suggested adding exercises where students are given a specific chemical (formaldehyde, or vinyl chloride, for example) and are asked to research what OSHA & EPA laws apply. He also suggested asking the students to identify potential air, water, and soil application and to list the applicable statures.

- OSHE 261: Mr. Glenn Young commented that the course covers the material that students will need in the work place. Mr. Rick Saizan commented: "1) There does not seem to be a hands-on component for handling a fire extinguisher. Bullex has an electronic simulator (http://bullex.com/product/bullseye-publiceducation/) and the company has discounts for educational institutions. A hands-on activity would address a Bloom's Taxonomy level-3 objective. 2) There are only two objectives for this course that go above level 2. This is a 200 level course. We need to identify objectives that address Application and Analysis, at the minimum."
- OSHE 311: Mr. Lance Roux asked: 1) The required course text is Safety and Health Management in the Nineties: Creating a Winning Program, by Terrell, M. J. (1995). This book is now 20 years old. We've made some great strides in HSE management since then. Have other more recent texts been reviewed or considered by this course? and 2) How were the optional recommended texts chosen?
- OSHE 322: Mr. Rick Saizan felt that the syllabus is "general hard to read" since the course content, objectives, and text were all listed TBA. <Dr. Yuan added that more information has been hopefully added since the syllabus was obtained in the beginning of Spring 2015.>
- OSHE 323: Several members suggested that engineering economy should be added.
- OSHE 341: Mr. Alan Rovira "went through both OSHE 341 and OSHE 441 syllabi and found them to more than adequate. For students just learning about IH both courses will adequately prepare them for IH level work. Except for formatting issues, they both are good." Mr. Charles Leonard commented that "I am more familiar with this one. OSHE 141 should be a prerequisite upon which OSHE 341 is built. This should enable moving directly into Field Methods, the intent of the course." He recommended organizing the 16 sessions as follows: one introduction session, two sessions for exams, and one for pre-exam review. The twelve remaining divided into modules (that include lab or demonstration):
 - Module 1: Five sessions on gasses & vapors, gas laws and calibrations (current Sessions 3, 4, 5, 8, 14)
 - Module 2: Two sessions on particulate & bioaerosol (current Session 7)
 - Module 3: One session on noise (current Session 9)
 - Module 4: Two sessions on physical hazards (electromagnetic spectrum: ionizing & non-ionizing radiation, heat & cold stress)
 - Module 5: Ventilation systems and principles
- OSHE 381: A few members commented that the title of the course may not be completely accurate or appropriate. Mr. Glenn Young commented:

- The course is overly broad and duplicates material from other courses. Examples: Module 1 #3 (Toxicology), #4 (IH Principles), and #6 (Toxic Release & Dispersion Models).
- Some material is overly detailed: Module 2 #11 (Relief Sizing).
- Some material may not apply at all to Chemical & Process Safety: Module 3 -All sections.
- Only one section of the courses (Module 1 #2 (PSM)) is available to cover all 14 elements of the PSM Standard. This should be expanded significantly to discuss all 14 elements in depth.
- OSHE 382: Mr. Buddy Mincey Jr. suggested that the following should be added into the course:

 1) Expansion on incident investigations including safety training and lessons learned; and 2) importance of near miss. He also commented that the textbook appears outdated.
- OSHE 421: Mr. Rick Saizan commented that "This is a 400 level course. There are a small handful of objectives, only one of which exceeds level 2." He suggested that the following should be added as objectives as well:
 - 1. Track and interpret the various indicators that describe an organization's performance in the areas of safety and health. (Level 2/6)
 - 2. Select, calculate and present pertinent safety and health data. (Level 3)
 - 3. Interpret safety and health data to provide accurate and balanced information that can be used to make improvements in performance. (Level 5)
 - 4. Select investigation methodologies and techniques that can be used to reveal the causes of accidents and incidents so that proper controls can be implemented to prevent a recurrence. (Level 3)

He also added "Projects provide additional levels of learning. A project should seek to address *Application* at the minimum. Multiple projects should piggy back on each other to address successively higher levels of learning."

Ms. Dorinda Folse suggested changing "accident" in the course title to "incident." She also recommended the following changes in the course objectives:

- 1. Apply the importance of maintaining accurate records to measure an organization's safety performance.
- 3. Calculate statistical rates, trends and other indicators and interpret the meanings of these results, based upon given ram sample data.
- 4. Discuss, implement, analyze, and apply both traditional methods and recent developments in acquiring, classifying, and recording the data collected from investigating safety and health incidents that occur in the workplace.
- 5. Discuss, implement, analyze, and apply the methods used to investigate safety and health incidents, and determining causal factors. Specifically apply: insurance First Report of Injury forms, Root-Cause Analysis, and other methodologies for determining accident causes.

She also questioned "what text is used for the first topic of course? And, is there a more current textbook for the second topic?" Without copies of assignments being provided, she felt difficult to evaluate the course in depth; however, she hoped that the near miss reporting is captured.

- OSHE 424: Ms. Dawn Bahm "reviewed the attached syllabi and I find the outline, materials and assignments to be appropriate for both the OSHE 251 and OSHE 424. I do see some minor typographical errors on the syllabi and the SELU Course Objectives, but I wasn't sure you were looking for that kind of review. I'll be glad to make notations on that if needed." Mr. Glenn Young commented:
 - Nowhere in the Southeastern curriculum are students exposed to the equations for engineering economy. I suggest that we include these six equations in this class.
 - The statistics course introduces students to equations, but provides little guidance to where the equations are applied in the workforce. I suggest that this class review these equations with emphasis on when and how to apply them in the workplace. This will include 3 reliability equations, 10 statistics and probability equations, and use of 3 tables (z curve, chi-square distribution, and t distribution). All these equations are from the CSP examination handout.
 - We might reduce our coverage on LOPA, ETA, and SIS to make room for this additional material.
- OSHE 441: Mr. Alan Rovira "went through both OSHE 341 and OSHE 441 syllabi and found them to more than adequate. For students just learning about IH both courses will adequately prepare them for IH level work. Except for formatting issues, they both are good." Mr. Wayne LaCombe suggested that the course objective 3 should be changed to cover "more common health issue, e.g., allergic dermatitis and respiratory toxicology" instead of "reproductive toxicology."
- OSHE 451: Mr. Richard Matherne suggested that a newer text should be used.
- OSHE 452: Mr. Donny Latiolais felt that the syllabus is good. Mr. Don Jones commented that the syllabus is excellent.
- OSHE 471: Mr. Buddy Mincey Jr. made the following comments:
 - Is review of OSHA modified training included?
 - Human resources topic overviews need to be covered.
 - Resources to develop training include OSHA websites and Internet.

The meeting adjourned at 1 PM. Group photos were taken before lunch from Wayne's BBQ was served.





Appendix A **OSH&E Advisory Committee**

Members

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* - Mr. Mauerman retired after Spring 2012.

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Appendix B OSH&E Advisory Committee

Semi-Annual Meeting Agenda

April 24, 2015

<u>Time</u>	<u>Issues</u>	Actions
9:30 - 9:45 am	Welcome & Introduction (By Ms. Dorinda Folse and Mr. Lance Roux)	
9:45 - 10:15 am	 Old Business Equipment Acquisition & Usage (By Dr. Ephraim Massawe) OSHE New Course Offerings (By Dr. Lu Yuan) Celebration of Student and Faculty 	
	Achievement (By Dr. Lu Yuan)	
10:15 - 11:45 am	New Business 1. OSHE Course Syllabus Examination	
	(By All)	
	2. Others	
11:45 - 12:00 pm	Portrait & Group Picture	
12:00 pm	Lunch	



Lu Yuan < lu.yuan@selu.edu>

Southeastern OSHE Syllabus Examination Spring 2015

25 messages

Lu Yuan <lu.yuan@selu.edu>

Thu, Feb 12, 2015 at 4:22 PM

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>, "Kerr, William" <wkerr@totalsafety.com>, Dorinda Folse <Folse.Dorinda@dol.gov>, Beth Inbau <beth@metrosafety.org>, Rick Saizan <rsaizan@alliancesafetycouncil.org>, Dawn Bahm <dbahm@amerisure.com>, Lance Roux <Iroux@safetyproresources.com>, Alan Rovira <Alan.Rovira@shell.com>, David Noland <dnoland@brec.org>, "Buddy Mencey Jr." <buddy@volksconst.com>, Michael Page <mpage@lwcc.com>, Connie Fabre <Connie@gbria.org>, Glenn Young <g.young.g@gmail.com>, Paul Higdon <paulh@cajunusa.com>, Donny Latiolais <donny.latiolais@gmail.com>, Charles Leonard <alchemist7@cox.net>, Andrew Kovacs <ask57@hotmail.com>, Trey Rivet <Trey@gbria.org>, Matthew Gautreau <matt.gautreau@cajunusa.com> Cc: Sebastian Van Delden <Sebastian.VanDelden@selu.edu>, Lu Yuan <lu>, Lu Yuan <lu>, Lu Yuan lu Yuan lu Yuan <a href="matheration-lin

<emassawe@selu.edu>, Amanda Brown <Amanda.Brown-6@selu.edu>, Lawrence Mauerman <Imauerman@selu.edu>

February 11, 2015

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!

As you may recall, three years ago in the Spring of 2012 we sent you the following documents for review: (a) the syllabus(i) of one or two OSHE courses and (b) *SELU Course Objectives and Bloom's Taxonomy* written by Mr. Rick Saizan in Spring 2009. We discussed the review at our OSH&E Advisory Committee Spring 2012 meeting, and the findings were included in that meeting report. Because we use a three-year cycle on the assessment, it is time to conduct a similar review during the Spring of 2015. Please use the above-mentioned updated documents to examine if the course description, objectives, topics, textbook, and project (if applicable) are appropriate.

We will appreciate if you could present to us with your comments at our Spring 2015 meeting. If you are unable to attend the meeting for any reason, please email or mail your findings to us.

Meanwhile, please kindly make a selection regarding the meeting time, date, location, and preference on type of food and send it to Dr. Lu Yuan by replying this email by **Monday Mar.9**, 2015.

Time and Date:

Friday April 3, 2015 from 9:30 to 1:00

9/7/2015	Southeastern Louisiana University Mail - Southeastern OSHE Syllabus Examination Spring 2015] Wednesday April 22, 2015 from 11:00 to 2:00] Friday April 24, 2015 from 9:30 to 1:00
Lo	ocation:
[] Hammond
[] Livingston Literacy and Technology Center in Walker
[] Southeastern School of Nursing in Baton Rouge
[] National Safety Council South Louisiana Chapter in New Orleans (Only available on Apr.22, 2015)
<u>T</u> y	rpe of Food:
[] American
[] Mexican
[] Italian
[] Chinese/Thai
Th	ank you very much for your continued contribution the program!
Si	ncerely,

Dr. Lu Yuan, CSP

Phone: 985-549-3838 Fax: 985-549-5532 Email: Lu.Yuan@selu.edu

Southeastern OSHE Course Syllabus Examination Spring 2015

OSHE 111 Introduction to Occupational Safety, Health, and Environment	Beth Inbau	Andy Kovacs
OSHE 112 Design of Hazard Controls	Wayne LaCombe	Trey Rivet
OSHE 121 Safety and Health Program Management and Administration	Don Jones	Trey Rivet
OSHE 141 Principles of Industrial Hygiene & Toxicology	Richard Matherne	Charles Leonard
OSHE 231 Safety Laws, Regulations, and Standards	Buddy Mincey Jr.	Beth Inbau
OSHE 242 Ergonomics	Lance Roux	Paul Higdon
OSHE 251 Environmental Laws and		

Steven Pereira	OSHE 311	OSHE 471
Richard Matherne	OSHE 141	OSHE 381
Don Jones	OSHE 121	OSHE 452
Wayne LaCombe	OSHE 112	OSHE 441
James Kerr	OSHE 424	OSHE 451
Dorinda Folse	OSHE 421	OSHE 471

Regulations	Dawn Bahm	Donny Latiolais
OSHE 261 Fire Protection and Prevention	Glenn Young	David Noland
OSHE 311 Safety and Health Program Development	Steven Pereira	Lance Roux
OSHE 322 Behavior Aspects of Safety	Michael Page	Rick Saizan
OSHE 323 Product Safety and Liability	Andy Kovacs	Michael Page
OSHE 341 Field Methods of Industrial Hygiene and Toxicology	Charles Leonard	Alan Rovira
OSHE 381 Safety in Chemical and Process Industries	Glenn Young	Richard Matherne
OSHE 382 Construction Safety	Paul Higdon	Buddy Mincey Jr.
OSHE 421 Measurement of Safety Performance and Accident Investigation and Analysis	Rick Saizan	Dorinda Folse
OSHE 424 System Safety Methodologies	James Kerr	Dawn Bahm
OSHE 441 Industrial Toxicology	Alan Rovira	Wayne LaCombe
OSHE 451 Hazardous Materials Management	David Noland	James Kerr
OSHE 452 Pollution Fundamentals & Control Technologies	Donny Latiolais	Don Jones
OSHE 471 Education and Training Methods for Occupational Safety and Health	Dorinda Folse	Steven Pereira

Beth Inbau	OSHE 111	OSHE 231
Rick Saizan	OSHE 322	OSHE 421
Dawn Bahm	OSHE 251	OSHE 424
Lance Roux	OSHE 242	OSHE 311
Alan Rovira	OSHE 341	OSHE 441
David Noland	OSHE 261	OSHE 451
Buddy Mincey Jr.	OSHE 231	OSHE 382
Michael Page	OSHE 322	OSHE 323
Trey Rivet	OSHE 112	OSHE 121
Glenn Young	OSHE 261	OSHE 381
Paul Higdon	OSHE 242	OSHE 382
Donny Latiolais	OSHE 251	OSHE 452
Charles Leonard	OSHE 141	OSHE 341
Andy Kovacs	OSHE 111	OSHE 323

Lu Yuan, Sc.D., CSP Associate Professor & Coordinator Holder of the Louisiana State Licensing Board for Contractors Professorship Occupational Safety, Health, and Environment (OSH&E) Department of Computer Science and Industrial Technology Southeastern Louisiana University SLU 10847

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Southeastern OSHE Syllabus Examination_Spring 2015.pdf 4607K

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Thu, Feb 12, 2015 at 4:27 PM

Your message