



# FCA

FIAT CHRYSLER AUTOMOBILES

## Safety Watch IU ASSE Student Section



March 2017

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## IU ASSE Chapter Tours Fiat-Chrysler Plant

by Tanner Warner

The Fiat Chrysler tour that the ASSE student section participated in on February 24<sup>th</sup> was a great success. Thirteen representatives from IU, both faculty and students, were able to attend making it a fantastic turnout. The tour was very educational as many new aspects were touched on throughout, including the idea of World Class Manufacturing. Participants were also treated with seeing what FCA calls a Safety DOJO where live, hands-on experience is given to employees to show the importance of different safety areas and techniques. The company was very welcoming throughout the entire tour starting with the provided lunch and ending with a small gift for everyone. We look forward to building a strong working relationship with FCA through many aspects including the annual research project, internships, and employment opportunities.

There are also more tours scheduled for the remainder of the semester. These include Steel Dynamics Inc. in Pittsboro, IN on March 24<sup>th</sup> at 12:00 PM. This will be a tour of the steel mill giving an insight into the production of steel bars through the use of scrap metal and alloys and how safety plays a vital role throughout the facility. A set of tours are also scheduled for Heritage Environmental Services hazardous wastes treatment plant located in Indianapolis, IN on April 7<sup>th</sup> along with a tour of the landfill followed directly after. These will show how hazardous waste is treated to be made non-hazardous according to RCRA specifications and will follow the path of the waste to its final destination in the landfill. The tour opportunities will be great experiences for all that can participate and will lead to gaining valuable experience and education on different industries highlighting how safety plays a major role in each.



### February IU Student Section Meeting

Larry Harshbarger from US Aggregates met with students and presented on a topic unfamiliar to many up and coming safety students: mine safety. Students were enlightened with information on MSHA and the potentials of becoming a mine safety specialist.

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### Students Get Hands-On with Research

ASSE student members worked with multiple companies to gather data for a vibration study. Students will be completing the study and presenting the finding.

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## February Student Section Meeting Digs Into Mining Safety

by Terry Batemon

In our February meeting we got a chance to get a different perspective of safety. Students and faculty got a chance to hear Larry Harshbarger from U.S. Aggregates. Larry came and explained a little about the mining industry. Larry Harshbarger is a Certified Mining Safety Professional and has been working for U.S. Aggregates for many years as a safety professional. Working in the mining industry, he has a different view than many others in the safety profession. Larry gave us a brief background about mining stating that there are around 11,000 active mines in the United States. 15-20% of mines are coal. Indiana has mostly limestone mines and only 10 active underground coal mines and 20 above. In mining you work with many drill and blast contractors, so it is important to understand contractor safety.

Mining is different from other industries and is not governed by the Occupational Safety and Health Administration.

It is governed by the Mining Safety Health Administration which has very distinct rules compared to OSHA. MSHA polices are all federally governed while OSHA is rooted in state governed policies. In MSHA, any underground mines required 4 inspections per year. The inspections can take time and the mining site may have someone on site year round possibly 2 if overlap. Anything that is not mining is under OSHA, which has lower possibilities of random inspection. U.S. Aggregates had 40 MSHA inspections. He stated that more inspections keep you on your toes and gets safety addressed quickly. Compared to OSHA, when you have an MSHA inspection you cannot turn them away because they are a federal employee. There inspections are unannounced.

It is hard to interpret MSHA regulations. Most of their regulations are vague and you must go above and beyond to remain compliant.

It is hard to get away with not following their regulations because MSHA inspectors are experienced in the field of mining. The regulations are not specific as the OSHA regulations. The non-serious violations for OSHA is \$114.00. Every violation has a monetary consequence. Anything on the mine is the responsibility of the company. All citations need to be fixed by a certain date and time no matter the cost.

Overall, it was nice having Larry come in and give us a different perspective of the safety profession. He encourages us to consider mining. He acknowledged that there are always jobs in the mining industry. It is also a very demanding industry to be in. Although it is a strict environment to work in, it does teach you to be very compliant. Many times we do not see this as a route to work in, however, it is a great route to take especially to get training in the safety industry.

## ASSE Student Officers Present at Central Indiana ASSE Meeting

by Nick Zaberdac

On Friday, February 17, IU ASSE Student Section officers Tanner Warner, Terry Batemon, and Nick Zaberdac presented at a Central Indiana ASSE "Parent Chapter" meeting. The meeting was held at the historic Poe Brothers Cafeteria in nearby Mooresville, Indiana.

The presentation focused around last year's research project, which as the safety culture survey. Officers shared the different challenges faced, shocking results, and what we could do better for next time. Thanks were paid at the end of the presentation for last year's officers Robert Hollins and Willie Sease, along with Dr. Al Capuano who all heavily contributed to the research project.

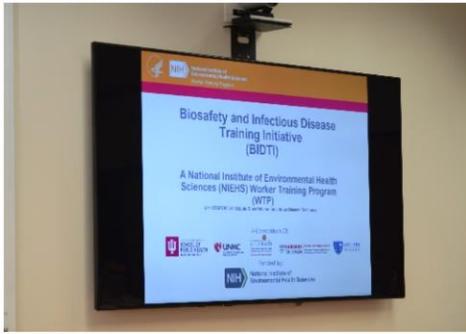
All attendees of the meeting were thoroughly impressed with the

The officers were able to network following the presentation with those in attendance. The presentation generated a lot of open discussion between attendees and student presenters both during and after the presentation.

As Dr. Al told the officers following the meeting, "You can always tell a good presentation by how many questions the audience asks." It is safe to say we knocked this one out of the park.



## MARCH IU SECTION MEETING



Aurora Le's presentation on infectious diseases touched on a subject that many safety professionals do not focus on enough.



ASSE Student Section Treasurer, Reilly Donovan, and Faculty Advisor, Dr. Kevin Slates, pose with a check that will be put in the sections funds for future membership.



## March Meeting Topics Range from Disease Control to Career Planning

by Reilly Donovan

The student section held its March meeting just before spring break on March 9. The meeting consisted of student section announcements of upcoming tours, conferences, and scholarship deadlines. Two guest speakers also presented at the meeting. The first guest speaker was Aurora Le; Aurora is an academic, environmental specialist in the IU School of Public Health. She is currently working on a grant project regarding infectious diseases, their prevention and treatment. Aurora spoke to the student section about her research, as well as discussed ways to prevent the spread of infectious diseases and how this relates to safety professionals. Overall, students gained knowledge on various strains of influenza, Ebola, and other infectious diseases, how to properly don and doff personal protective equipment, proper hand washing technique, and much more applicable knowledge for the workplace.

The second guest speaker was Chet Brandon. Chet is the Vice President of Operations, and a Corporate Safety Officer at ATI Worksite Solutions, and serves as the President-elect of the Central Indiana ASSE Section, the parent chapter to the IU student section of ASSE. Chet presented to the student section his keys for success in the safety field. He shared personal stories of how he got to the position he is in now and also discussed with students the struggles and sacrifices he had to go through while in the safety profession. He spoke on what to do if you want to put yourself ahead and be the best candidate for a position and he encouraged students to seek opportunities outside of the classroom, to volunteer at conferences, and to speak at conferences to network with other professionals. Following his presentation, students were invited to ask Chet questions about his experience, and the field of safety.

### Next IU Student Section Meeting

April 13<sup>th</sup>

- 4:00pm ASSE Student Chapter Meeting w/ guest speaker Vince Cooke from Kimball National Office Furniture Speaking about Early Prevention Programs

# IU ASSE Student Section Scholarship - Spring 2017

## How to apply

The Indiana University American Society of Safety Engineers Student Section will award multiple scholarships totaling \$4,000 to safety students. To be eligible for the IU ASSE Student Section Scholarships, students must have at least a 3.0 GPA, major in safety, be an ASSE Student Section member and submit a personal statement. The application deadline is Thursday March 30, 2017. Interested students should submit a personal statement to Dr. Kevin Slates at [kslates@indiana.edu](mailto:kslates@indiana.edu).

**Personal statement:** Include future career goals, financial need, and contributions to the student section. Name, student ID #, overall GPA, expected graduation date.

**Scholarship Deadline:** Thursday March 30, 2017



## Research Project Update: Field Work Completed, On to the Data

by Nick Zaberdac

The past few weeks have been very productive for the research committee. On March 1, research committee chair Chase Laughead conducted vibration sampling at Indiana Limestone using the Larson-Davis HVM (Human Vibration Meter)-200. Three workers were sampled on three different pieces of heavy equipment. The data was uploaded shortly thereafter by active committee member Tanner Warner.

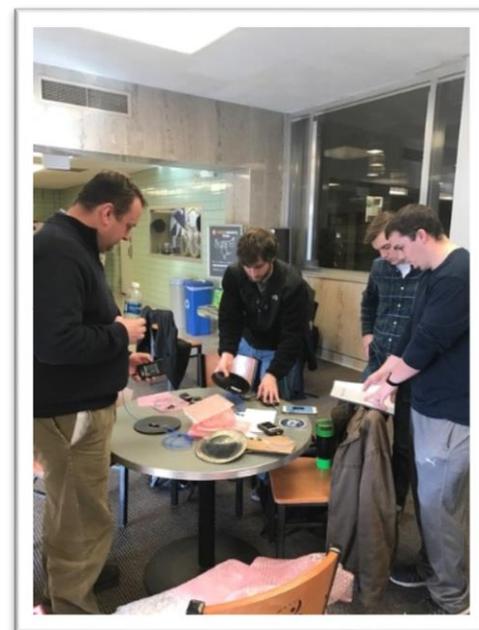
During the week of March 6, Nick Zaberdac made several trips back and forth to Heritage Transport to do a similar study. Different equipment was analyzed, as Heritage Transport has many semi-trucks with different trailer configurations. Heritage has several 2017 Peterbilt Truck models along with 2017 "Air Ride" style seats. Tanner again uploaded data from the Heritage sampling.

The research team is now working on compiling data from the study. Once the data is analyzed, it will be placed into two technical reports, one for each company.



These reports will also provide recommendations and/or corrective actions for the companies, if needed.

I would like to thank all members of the research committee, along with Dr.'s Slates, Capuano, and Smith for their continuous support. If any member of the research committee is interested in presenting our findings at the Safety 2017 National Professional Development Conference at a poster session, please notify Dr. Slates!



# Student Profile: Walter Misselhorn

by Nick Zaberdac

## What is your career background?

I spent 16 years in the US Military 10 with the Navy as a ship's engineer and 6 years in the Army as an M1 tanker (So yeah all tankers are like Brad Pitt from the movie Fury.)

## What made you want to study safety?

At first, I just did what most guys in the military do and head to school either with general education or criminal justice degrees. I did not know about the safety program that was offered by the School of Public Health until I talked to Robert, a formal graduate student of SPH safety program. After that it only made sense because that is basically the job that I've done while in the military. The job was making sure my guys were able to go home to their loved ones.

## What is your favorite class you have taken at IU and why?

I would say taking martial arts and yoga because it's freaking martial arts and yoga. While in the safety field I would say it was accident investigation

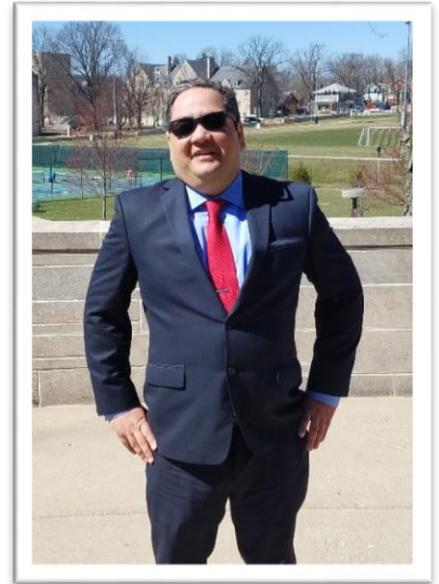
because it shows how to put the pieces of accident together like a puzzle and to reach not only superficial causes but also the deep root causes as well.

## Rumor has it you recently attempted to eat a 72 lb. steak on a trip to Texas. What risks were involved in this endeavor?

That's a fact. However, I failed due to not having enough time and missed by only 4 oz. and a bread roll. Some of the risks I would say are potentially choking and possible dislocation of your jaw from all the chewing. Overall it was a great experience and I doubt I will be accepting any challenges like that again.

## What industry would you like to work in once you graduate and why?

I'm not too sure which industry I would like to work in but I'm hopefully going to have an internship over the summer in one of the many fields to better understand how it works and if it something I would like to continue with.



Walter Misselhorn – IU Safety Student

That is one thing I do regret. I wish I would have done an internship during my freshmen and sophomore years.

## Where do you see yourself in ten years?

Fat and bald, and also half way to my 2<sup>nd</sup> retirement. I hope by then I earned my masters in safety and also my CSP. With the undergraduate safety degree at IU, you earn the GSP which will help me more quickly to reach my goal for a CSP.

# IU ASSE Partners with Make-A-Wish for a Fundraiser

by Luc Letner

Over the course of the school year I have been working on creating a fundraiser for the Make-A-Wish foundation. On Friday March 24th, IU ASSE hosted our first ever 50/50 Raffle for the Kids where 50% of the proceeds went to the Make a Wish Foundation and the other 50% went to a lucky IU student's wallet!

Although turnout was smaller than hoped, it still felt great to give back to the campus community and to help out sick children. Looking into the future, I believe that the seeds have been planted to continue this fundraising idea into the future and it will gradually become more successful as time goes on!



## Faculty Spotlight: Dr. Todd Smith

Dr. Todd D. Smith, along with colleagues at the University of Georgia and Kennesaw State University, recently completed a multi-year study that was funded by FEMA. This study focused on developing a multi-level measure of safety climate for use in the fire service. This research has resulted in multiple presentations, including recent presentations at the 2016 FEMA AFG Research and Development Annual Meeting, the 2016 Fire Rescue International meeting and the 2016 American Public Health Association Annual Meeting. Dr. Smith and colleagues are currently at work on multiple papers aimed at disseminating their findings of this extensive research effort. In addition to this work, Dr. Smith published multiple papers in 2016 and during the first three months of 2017. Recent publications include an article titled "Safety-specific transformational and passive leadership influences on firefighter

safety climate perceptions and safety behavior outcomes" published in the journal *Safety Science*, an article titled "A conceptual safety-oriented job demands and resources model for the fire service" published in the *International Journal of Workplace Health Management*, an article titled "Assessment of the ARFF-related NFPA standards development process" published in the *International Journal of Emergency Services*, an article titled "An assessment of safety climate, job satisfaction and turnover intention relationships using a national sample of workers from the United States" published in the *International Journal of Occupational Safety and Ergonomics* and an article titled "Effects of organizational safety practices and perceived safety climate on PPE usage, engineering controls and adverse events involving liquid antineoplastic drugs among nurses" published in the *Journal of Occupational and Environmental Hygiene*. Recently, Dr. Smith has been presenting on the topic of safety leadership at various conferences



including the AIHA Fall Conference in October 2016 and the 2017 Healthcare Systems Process Improvement conference in March 2017. Additional presentations related to safety leadership and/or safety climate will be completed in the near future at the 2017 Work, Stress and Health Conference and this fall at the 2017 National Safety Council Meeting and Expo.

If you would like more information about Dr. Smith's research or if you are interested in assisting with future research projects, presentations and/or publications, please contact him at [smithtod@indiana.edu](mailto:smithtod@indiana.edu).

## IU ASSE Student Section Elections to be Held in April

Are you interested in becoming an officer or other member of the IU ASSE Student Chapter? Elections will be held during the next meeting on April 13<sup>th</sup>. If having a more prominent role in ASSE is something you are considering please plan on the following:

- Contact the officer or member who currently holds the position you want to run for to get an idea of what they currently do.
- Plan a small speech for the group to give everyone an idea of your qualifications and why you want the position.

The list to the right is the student section bylaws that outlines what each position entails. Student Editor/Layout is not technically an officer position. The details are fairly simple and involve creating the newsletters and helping to generate content.

**President: (Chairperson)** shall call, set agendas for, and preside at meetings of the Executive Committee, and preside and set agendas for meetings of the Section membership; shall set goals and objectives for the Section and provide leadership, guidance and direction to officers, committees and members to see that they are met; shall appoint members of the Nominating Committee; shall serve as chief spokesman and representative of the Section to the Chapter, Society and allied groups; and shall submit an annual report of Section activities to the Chapter and Student Member Activity Task Force.

**Vice President: (Vice Chairperson or President-Elect)** shall succeed to the office of the President if the President is unable to serve; shall act for the President when requested to do so by the Executive Committee or members; and shall in general prepare to ascend to the Section Presidency in the following year.

**NOTE: The Vice President (President-Elect or Vice Chairperson) may also supervise the work of Section appointed committees or project Chairpersons, if desired.**

**Secretary:** record, transcribe and distribute minutes of all Section meetings, prepare and distribute meeting notices, maintain all Section records and conduct Section membership development and retention activities under the supervision of the Executive Committee.

**Treasurer:** shall collect and disburse all Section funds, maintain Section financial records including all income and expense activities, collect Section-generated membership fees and dues, handle all Section liaison with financial institutions, submit an annual report of all Section financial activities to the Executive Committee, and keep the Section and Chapter regularly informed as to the Section's financial status.

**Officer/Member Contact Information:** President – Nick Zaberdac ([nmzaberd@indiana.edu](mailto:nmzaberd@indiana.edu)) • Vice President – Tanner Warner ([andawarn@indiana.edu](mailto:andawarn@indiana.edu)) • Secretary – Terry Batemon ([terbatem@indiana.edu](mailto:terbatem@indiana.edu)) • Treasurer – Reilly Donovan ([rkdonovan@indian.edu](mailto:rkdonovan@indian.edu)) • Student Editor/Layout – Michael Anderson ([m1a5@iu.edu](mailto:m1a5@iu.edu))

# Safety Watch IU ASSE Student Section

Indiana University  
Bloomington, IN



*IU ASSE Student Michael Anderson at 2017 Indiana Health & Safety Conference and Expo*

## UPCOMING DATES

- **APRIL 7<sup>th</sup>**
  - Heritage Environmental Tour (Both Plant and the Landfill) Beginning at 11:00am, lunch will be provided. For more details see the emails from Dr. Slates through the listserv.
- **APRIL 13<sup>th</sup>**
  - 4:00pm ASSE Student Chapter Meeting w/ guest speaker Vince Cooke from Kimball National Office Furniture Speaking about Early Prevention Programs
  - Student Elections for Officer Positions (see pg. 6 for more details)
- **Weekend of May 6<sup>th</sup>, 7<sup>th</sup>, & 8<sup>th</sup>**
  - IU Graduation for Undergraduates and Graduate Students

### FAST FACTS

## Did you know?

You can go to [jobs.asse.org](http://jobs.asse.org) to search for safety jobs and internships?



### ASSE NEWSLETTER

EDITOR: Dr. Kevin Slates

ASSOCIATE EDITOR &

LAYOUT: Michael Anderson



## OUTSTANDING STUDENT SECTION AWARD



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# 2015-2016

- Indiana University Bloomington  
ASSE Student Section
- School of Public Health
- 1025 E. 7<sup>th</sup> Street Bloomington, IN  
47405



*Dr. Al Capuano discussing safety at the Indiana Health and Safety Expo during a session he moderated*



*"Perfect Storm" Coast Guard Captain, Larry Brudnicki Speaking During the Health and Safety Expo*



The second half of the IU ASSE Food Drive is complete.

With the estimated 42lbs. last semester and an amazing 107lbs. this semester the total is over:

**≈ 150 lbs!**

Thank you to everyone who donated!





Students, Faculty, and Guests at the February 2017 IU Student Section Meeting



2017 ASSE Golf Scholarship Recipient, Tanner Warner



IU Safety Grads Craig Sherwood and Jose Quiroz with IU ASSE President, Nick Zaberdac

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**Ψ**  
ASSE