



THE REBOILER

Brought to you by the
Purdue Chapter of the
American Institute of
Chemical Engineers

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Edited By: Sandra Azzano

Frontiers in AIChE

By: Adam Slaboski

With strong dedication and hard work from our committee heads and executive board, this has been a very exciting semester for the Purdue Student Chapter of AIChE! Through our Industrial Roundtable Banquet, our various company information sessions, and our industrial teleconference, the AIChE members have enjoyed many opportunities to network with industry representatives. I have received much positive feedback from the company representatives about how much they enjoyed the opportunity meeting the members of Purdue AIChE. Many companies are also taking a more active role with our chapter. Shell and Purdue AIChE established a strong partnership last year, and they have continued their commitment with strong financial support this year. Clorox, Procter & Gamble, and Air Products all contributed to sponsoring our chapter's trip to the AIChE National Conference in Cincinnati this past October. And Lyondell has generously sponsored our Chem-E-Car team, who is very excited to reclaim national recognition for Purdue!

Thanks to the strong support from our two chapter advisors, Dr. Morgan and Dr. Kim, as well as continued support from Dr. Varma, Dr. Beaudoin, and many other professors, AIChE has enjoyed a much closer relationship with the ChE faculty this semester. An unprecedented number of professors have been attending our Student/Faculty Luncheons and Pubbing events.

All of the students and professors who have attended these events have really enjoyed the opportunities to get to know one another outside of the classroom.

I encourage all of you to continue developing relationships and friendships with the Purdue professors. Personally, talking with and getting to know the professors outside of the classroom has helped me with topics to discuss in job interviews as well as with recommendation letters.

The AIChE National Conference took place on the weekend of October 29 in Cincinnati, OH. Sixteen AIChE members attended and had a great time getting to know one another, networking with ChE students from all parts of the nation, and learning skills and programs to enhance our chapter's operations. If you have not yet heard, I am excited to inform you that Purdue will be hosting the North Central Regional Conference, which will take place on April 1, 2006.

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So, Hypothetically...

By: Jessica Moore

As a follow up to the Nationals trip, there was one thing that stuck with me. Over and over again, at the conference, the president of the National organization suggested that the attendance was stellar. Indeed, there was school spirit, pride, and some down right entertaining moments, and with over 1000 students from throughout the U.S. how could it not be one big party? Okay, back to my point. The president reiterated the most misleading statistic ever at the conference. He mentioned that there was about a 20% chemical engineering undergraduate attendance rate for the conference – based on the 1000 students present and the nearly 4500 chemical engineering graduates each year.

The diversity of the student chapters and the members they bring to the conference is far broader than just the seniors. The point of the student chapter is to bring together interested freshman, sophomores, juniors, and seniors – this is reflected on campus and on our trips. 15 Purdue students attended this year's conference (in Cincy) and met many students from everywhere in the country. We mingled with all sorts of people: from the Midwest to the South and hailing from the smallest and largest schools. There were people from IIT in Chicago, WMU, Tri-State University, Texas, Florida, Kansas, and Penn State, just to name a few.



Jessica (VP) and
Adam (President)

And what about this misrepresentative number? Obviously, the attendance rate is much less than 20% of students; maybe he was being hopeful. I know I am, and hopefully we see more people in attendance in upcoming years. Why? Because Purdue is exciting and we are Champions of Excellence, of course! Changing attendance at nationals starts with a strong student chapter. And here's the plug for joining AIChE – but it's worth it. I can't promise that AIChE will fulfill your wildest dreams, but members get details and reminders about all the upcoming events and ways to be involved (...in that short period of time professors let up on homework) and you get to meet all sorts of people you might not otherwise be introduced to in class. Don't just think about being active – come to events, stop by the office to chat, or petition to go on trips. So, come to events and rock out with your mates. We'll see you soon!

Chem-E-Car Still in Infancy

By: Paul Basiaga

The beginning of a new year marks the beginning of a new season for the Chem-E-Car. After a disappointing outing last year, we're hoping to relive the nationals run enjoyed by the team two years ago. Thanks to a good turn out, the new team is looking promising, and with a few much needed grants from generous donors, our future is bright. The new car is still in its design stage but much headway has already been made. Added to that, the upcoming AIChE National Competition will give insight into what other schools have done and the designs that work. While there's not a lot to show as of yet, the team is still excited and ready to get to work on the 2006 Chem-E-Car.

Student / Faculty Activities

By: Allison Yates

Student/Faculty activities are underway! We've started out this year with a luncheon and a Pubbing with Professors at Jakes. Look for more fun events to come. Our first luncheon was a great success with a large number of students in attendance as well as professors. The location was changed to the Undergraduate lounge in case you were at all confused from last year's location. We decided the lounge provided an easier forum for open discussion among fellow students and professors. So feel free to join us at our next luncheons and chat it up with some of the professors. Note that you must be an AIChE member to partake in these events, however. So be sure to sign up!

The Pubbing at Jakes was a lot of fun. Not only did we manage to get a number of professors to show up, Professor Varma, the Director of Chemical Engineering even stopped by to say hello. Thanks to Jenny Farney, the ice was immediately broken when she asked him about a friend's claim regarding the purification of a certain beverage and if the Brita filter actually worked.

We are currently looking into planning a bowling night, more luncheons, and of course, more Pubbing with Professors. So be sure to come and hang out with us. If you have any ideas for events you'd like to see us do with the professors, stop by the office (FRNY 6A) and let us know. We love input! Who knew ChemE's were such fun?!



Flag Football Team

Boo at the Zoo

By: Kalyn Wenzlawsh

This year, Boo at the Zoo was another success for the Columbian Park Zoo. With over 600 volunteers throughout the week, it was sure to be a scream. They were able to host a 3 day event for young children. At this year's event, there was a train ride that took the children through a variety of children stories that were acted out by volunteers dressed to fit the part, carnival games where the children could win different prizes, face painting, a haunted maze, and a petting zoo, where the children were able to see some of the animals that are housed at the zoo.

I want to thank all of the members that came out and helped volunteer either on Sunday with the set up or on Wednesday night during the event. Everything was a great success and ran smoothly.



Nationals in Cincinnati



Southern Engineering Exam

Submitted by James Seto & Elaine Stewart

1. Calculate the smallest limb diameter on a per-simmon tree that will support a 10 pound pos-sum.
2. Which of the following vehicles will rust out the quickest when placed on blocks in your front yard?

'66 Ford Fairlane
'69 Chevelle
'64 Dodge panel truck
3. If your uncle builds a still that operates at a capacity of 20 gallons of shine per hour, how many car radiators are necessary to condense the product?
4. A pulpwood cutter has chain saw that operates at 2700 rpm. The density of the pine trees in a plot to be harvested is 470 per acre. The plot is 2.3 acres in size. The average tree diameter is 14 inches.
How many Budweiser Tall-Boys will it take to cut the trees?
5. If every old refrigerator in the state vented a charge of R-12 simultaneously, what would be the decrease in the ozone layer?
6. A man owns a house and 2.7 acres of land in a hollow with an average slope of 15%. The man has 5 children. Can each of the children place a mobile home on the man's land?
7. A 2-ton pulpwood truck is overloaded and proceeding down a steep grade on a secondary road at 45 mph. The brakes fail. Given the average traffic density of secondary roads, how many people will swerve to avoid the truck before it crashes at the bottom of the mountain? For extra credit, how many of the vehicles that swerved will have mufflers and uncracked windshields?
8. At a reduction in gene pool variability rate of 7.5% per generation, how long will it take a town that has been bypassed by the interstate to breed a country-western singer?

Top Ten Reasons To Date an Engineer

Submitted by: Rochelle Chism

1. The world does revolve around us... We pick the coordinate system.
2. Can go all night long without a hint of fatigue
3. We know how to handle stress and strain in our relationships.
4. Parents will approve.
5. Help with your math homework.
6. Can calculate head pressure.
7. Looks good on a resume.
8. Free body diagrams.
9. High starting salary.
10. Extremely good looking



Ryan Busch
Ashley Leidolf

Handy Engineering Conversions

Submitted by James Seto & Elaine Stewart

Ratio of an igloo's circumference to its diameter: Eskimo Pi	453.6 graham crackers: 1 pound cake
2000 pounds of Chinese soup: Won ton	1 million microphones: 1 megaphone
1 millionth of a mouthwash: 1 microscope	1 million bicycles: 2 megacycles
Time between slipping on a peel and smacking the pavement: 1 bananosecond	2000 mockingbirds: two kilomockingbirds (groan)
Weight an evangelist carries with God: 1 biligram	10 cards: 1 decacards
Time it takes to sail 220 yards at 1 nautical mile per hour: Knot-furlong	1 kilogram of falling figs: 1 Fig Newton
365.25 days of drinking low-calorie beer because it's less filling: 1 lite year	1000 cubic centimeters of wet socks: 1 liter-hosen
16.5 feet in the Twilight Zone: 1 Rod Serling	1 millionth of a fish: 1 microfiche
Half of a large intestine: 1 semicolon	1 trillion pins: 1 terrapin
1000 aches: 1 kilohurtz	10 rations: 1 decoration
Basic unit of laryngitis: 1 hoarsepower	100 rations: 1 C-ration
Shortest distance between two jokes: A straight line	2 monograms: 1 diagram
	8 nickels: 2 paradigms
	3 statute miles of intravenous surgical tubing at Yale University Hospital: 1 I.V. League

And so it begins...

By: Sandra Azzano

There once was a girl named May
 All she wanted to do was play
 She became a Chem-E
 Learned to live in Forney
 And never again saw the light of day.

Her first day of class
 She had to do a balance with mass
 Mass in = mass out
 Of this, there was no doubt
 ChE 205, she was sure she could pass.

Exam time came
 With only herself to blame
 When she forgot to study
 Unlike her other 205 buddy
 She left the room in shame.

With only two chances to go
 She'd have to learn about flow
 Study she must
 With a crazy 205 lust
 All the material she needs to know.

The second time through
 She knew just what to do
 Chem-E is fun
 When all the work is done
 Two and half more years with the same crew.

"Future of Industry" Teleconference

Was held on 11/17 @11-12pm.



LUM Dinner

Nationals

By: Jason Corah

Over the last weekend in October, fifteen AICHE members had the opportunity to miss a day of classes for an adventure in the city of Cincinnati, Ohio. After a few hours in the car, we arrived at our hotel.

Friday night set off the weekend. After a short nap to get ready for the night, everyone headed out for a dinner and night on the town complete with a little Frank Sinatra. That evening we meet up with a few other schools, including students from the conference last year from Austin, Texas.

After a fun Friday night we did have some work to do. During the day Saturday we enjoyed great seminars presented by other schools on topics such as Chem-E-Car and fundraising, as well as topics presented by industry experts on a wide range of topics. That evening brought the AICHE social. Everyone put on their costumes, or for those without them found, out what their costume was, and headed to the Gamezone. Even the ride there had an experience as we ran into some people in a limo; actually the bus ran into a limo, leaving us taking a nice walk over the Ohio River to the party.

Philanthropy

By: Jeff Dombek

The Philanthropy committee of AICHE has been pretty busy this month and really getting involved with the community. The LUM dinner went great, I think everyone involved had a good time. Boo at the Zoo was a big hit, a million kids were there and having a lot of fun. I not so luckily got to do some face painting and no matter what the kid asked for I drew a spider because its all I could do. Currently there is a food drive going on right now so please donate some non perishable foods in the marked boxes located in Forney.



October LUM Dinner (with OXE) : Danny Robbins & Liz Reinitz

At the social, several people participated in the costume contest. Mr. Incredible was sadly beat out by Captain Planet, but maybe next year the superheroes can battle it out again.

Sunday brought about even more as the morning started out with a presentation on how to plan the regional conference we will be having at Purdue this spring. Later in the morning we all attended the student brunch with a presentation on the history of OXE. Finally, the Chem-E-Car team returned from getting ideas for our car at the Chem-E-Car competition before making the trip back home, back to the week of exams facing everyone.

ChE Classes Word Search

C	H	E	M	R	X	N	S	R	T	H	C	C	M	H
W	E	R	B	T	U	E	R	X	B	C	P	O	L	E
D	Y	F	F	J	T	N	L	E	C	H	D	N	C	A
E	R	P	C	L	A	C	E	H	C	O	J	T	H	T
S	S	O	N	T	U	D	Y	E	W	S	C	R	E	A
I	U	L	M	D	M	I	E	N	I	E	M	O	T	N
G	N	Y	O	C	C	H	D	G	H	N	D	L	E	D
N	H	M	S	T	A	T	I	S	T	I	C	S	W	M
H	T	E	T	M	E	D	P	C	S	O	S	E	S	A
N	H	R	A	S	N	O	I	T	A	R	A	P	E	S
S	E	S	S	F	J	I	C	R	J	L	F	A	P	S
R	R	N	Y	K	D	K	H	T	R	A	P	T	L	X
I	M	U	P	P	Y	N	W	N	D	B	L	H	R	C
M	O	L	E	C	U	L	A	R	E	N	G	R	H	N

Fluids
Separations
Heat and Mass

Thermo
Statistics
Chem Rxns

Molecular Engr
ChE Calc
Design

Senior Lab
Controls
Polymers

CHME-quip

Each letter stands for another letter in the alphabet. Use the clue and your ingenuity to solve the code.

“You know you’re a ChE when...”

ARB TPQTBQPFFZ FLZ PDRBSF RM IPQF PSC

WTZ SZCZC FR NZK ARBG TPS TRQC.

Solutions on Back!

CLUE : (R = O)

By: Randy Fletcher

AICHE Nationals was a great time in Cincinnati. Many things were learned, new friends were met, and good times were experienced. At first, I was dragged into going to the conference. I wasn't pleased to say the least about the situation, but I knew that it was only three days, so it couldn't be that bad.

After the three and a half hour drive to Cincinnati, we arrived at the hotel and decided to see what the town had to offer. Once some of my colleagues and I finished surveying the city, we decided to go back to the hotel before the evening began. The first evening started with dinner at a local brewery. At dinner we met a number of new people that attended various universities. The evening was ended by a trip to see a local jazz band play many of our requested songs.

The next day was the first day of the conference. The day included an introduction and seminars given by distinguished members of the AIChE society.

That evening, the conference had a costume contest and dinner for the attending members. The night was comprised of hanging out with new and old friends at a variety of locations. Before the drive home to Indiana, my colleagues and I attended an awards brunch at the conference. Looking back at the conference, many things were learned, new friends were met, and it was a fun time.



*“Index
Notation,
never leave
home without
it.”*

-M.T.H.

>>Frontiers from page 1

The conference committee has been hard at work planning this exciting event. At the Regional Conference, Purdue will host over 25 different colleges and universities. We have scheduled two exciting plant trips, social events, speakers, and several leadership, career building and technical seminars. I strongly encourage all of you to mark this date on your calendars and start getting excited about the conference. If anyone is interested in joining the Conference Committee, we will be more than happy to have your help! Planning the Regional Conference is a huge endeavor that will enhance your leadership skills and give you a lot to talk about in an interview! Please talk to one of the executive board members if you want to join the Conference Committee.

Get to Know Kevin Kickham

Name: Kevin J. Kickham (I am not a Slacker as previously stated in the last Reboiler)

Year: Senior

Committee: Special People

Summer Work: Worthless

Professor most likely to win Jeopardy:

If there is a snicker's category and the pay out was in snickers then Thunder would win

Do you have any collections, what is it:

I used to have fish, but they died

If you find a statue of Zeus made of 15,267 popsicle sticks - where are you?

In the hospital because, I probably just ate 15,267 popsicles on a stupid bet, so someone could make a statue of Zeus with the popsicle sticks. But popsicles taste sooo good.

Mmmmmmm Popsicles, hey does anybody have popsicles? I'm coming over now.

Do the chickens have large talons?

Nope, except sometimes McDonald's chicken sandwiches have sharp little bones in them or something, but I have never gone to the store and seen a chicken with talons.

What makes you want to dance:

Popsicles

Favorite ChE Memory:

Wandering from room to room trying to find people from Michigan State with Nathan Keen

Fall plans:

Get a Job, and eat popsicles

Anything else all ChE's should know?

Popsicles = Brain Food or Brain Freeze if you eat 15,267 of them

Also when optimizing the absorption of alcohol into the blood stream, remember that adding a recycle stream is a bad idea and will only cause the purge stream to activate, in turn producing a chemical spill, which is something every chemical engineer should try to prevent. Note that this statement is not based on experimentation, rather just a little piece of engineering intuition and knowledge passed down from one generation to the next.



Out to Dinner at Nationals



Jessica and Kevin having a little too much fun at Nationals



Kevin Kickham and Allison Yates

Solution to Word Search, pg 7



Solution to CHME-quip, pg 7

You Calculate The Amount of Salt and Ice
Needed To Keep Your Can Cold

hahahaha

AIChE®

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<https://engineering.purdue.edu/aiche>

