



AIChE Student Chapter Newsletter

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WELCOME BACK

And for those of you who are freshpeople welcome to the Chem-E department. As for an introduction of myself, I am Matthew Law, or as most people call me, Matt. I am a senior, this being my third year with that title. When I first came to college I attended the University of Oregon.....that's right, OSUs cross state rival, where I was a math major. Well to make a long story relatively short, I transferred to Chemical Engineering and have been here seven terms now.

That is enough about myself, I feel that I should inform you as to what is going down with AIChE. I am planning to have an enriching year full of opportunities and activities for everyone to get involved. The first major activity that we held was the cake social, which was a fairly well attended event. However, I had hoped that I would have seen a few more faces, especially when we had half a cake left over. Which leads to the second event, the pizza feed. During this event we will also be featuring guest speakers that will help with your interviewing skills by providing helpful advice and tips. Although these guests will be more geared to the senior class I hope that everyone takes advantage of this opportunity for internship and any other job interviews that you might be attending. If you happen to be reading this after the pizza feed (Oct. 21) don't get discouraged because we plan to hold many similar events with guest speakers. The speakers might not be talking about interviewing but they will be talking about a certain topic, as will be the theme for the event. At the next event we plan having all, or at least most, of the students that went on ME-COP internships give their impression of the company they worked for.

We will also be holding other events that you can attend such as bowling, plant trips, and possibly a fundraising golf tournament at the end of the year. Bowling is an idea that Dr. Rochefort came up with that sounds like it could be tons of fun, where we rent the bowling alley in the MU and bowl as much as we like for the allotted time. Of course we would make announcements of what is happening and all the usual stuff. The plant trips will be fun too! Jeff Sponsel is trying to get a plant trip to the Henry's brewery up in Portland, along with other trips that might spark the interest of most everyone. As for the golf tournament you had better get out those clubs and start practicing, because there could be a prize for the winner, and possibly some other smaller prizes for certain occurrences, such as a hole in one (yea if your Peter Jacobson). As you could tell by the wording in my previous sentence, all this is in the planning stage and dependent on some other factors. So far it is planned for June (around graduation). If you would like to help set up this tournament get in touch with the vice-president Dan Euhus.

I hope that this year will be one of the best years in terms of the amount of social events and attendance. If you have any suggestions as to what else we can do as a chemical engineering group just bring it up to your class representative or if you happen to see me just grab me and I will gladly listen (provided that Dr. Rorrer and Dr. Levien don't pile tons of homework on us seniors). It will then be brought up at the next meeting, and who knows it might be implemented. Now that you have survived my schpeal on AIChE events I would now like bring this first article to a close by saying have a great time, learn much, and practice that golf swing!!

Adios Amigos,
Matthew Law
AIChE Student Chapter President

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Chemical Engineering Outreach

The Chemical Engineering Department began an outreach program last year aimed at interesting High School students in math, science and engineering and trying to interest them in considering OSU and Chemical Engineering in their college plans. Last year almost 120 students were presented to at one Eugene High School. This year our goal is to talk to the Advance Placement (or Second Year) Chemistry students at a number of high schools. A typical presentation covers a little bit about Chemical Engineering, OSU and Industry here in Oregon. Then students participate in a variety of hands-on application projects. Last years projects included papermaking and silly-putty. Similar projects will be done this year, but we are open to suggestions for new projects.

The first outreach will be to Churchill High School in Eugene, OR on Thursday, November 20th. The AIChE and TAPPI Student Chapters sponsor the outreach program. All students are welcome to participate, lunch is provided. A planning session will be held prior to the trip so students are comfortable with the presentation. If you have any questions or are interested in participating, please contact Dan Euhus at euhusd@ucs.orst.edu, or Dr. Rochefort.

Dan Euhus

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AIChE Tutor

HEY!! Is physics giving you a headache? Does the mere thought of fluids make you cringe? If you're struggling in school, AIChE can help. This term we are offering help sessions for ChEs enrolled in ENGR 331; and private and/or group help in other math, engineering, chemistry, and physics courses. The best part? It's free!! For more information e-mail Danielle or Kristine:

amator@ucs.orst.edu pennkl@cstr.orst.edu

Dr. Skip's Corner

Welcome to the '97-'98 Academic Year

On September 29th the bells chimed to signal the start of a new and exciting year at OSU.....and in the Chemical Engineering Department! Let me take this opportunity to introduce myself. I am Dr. Skip Rochefort (hence the name of the column), and I am the OSU AIChE Student Chapter Advisor. My office is in Gleeson 205, so if you have any questions about AIChE, and especially if you want to join or participate in activities, please feel free to stop in and see me. I particularly welcome Freshman and Sophomore students who might not be too familiar with AIChE and the benefits it has to offer to their present activities (which classes to take and from whom; where to get help with specific classes; etc.) and future careers (networking!) The Student Chapter is what the STUDENTS make it. It can be a lot of fun, and it can be beneficial and a learning experience too! I would urge you to be active in the Chapter and take advantage of the numerous plant trips, speakers, and PIZZA FEEDS that occur. This is your chance to meet other (more experienced) students, faculty, and industry people in a informal and friendly setting. Networking is a "buzz word" for the 90's, and networking is what the Student Chapter is about. SEE YOU AT THE NEXT STUDENT CHAPTER FUNCTION!

Dr. Skip's Tidbits:

OSU ChE Department HOME PAGE: <http://www.che.orst.edu/> Useful ChE Web sites: OSU College of Engineering: <http://www.engr.orst.edu/> ChE Departments (nationwide): <http://www.che.ufl.edu/WWW-CHE/>

DESIGNER AIChE T-Shirts going like "Hot Cakes" Year-End Models at DISCOUNT PRICES!!!! See Dr. Skip Rochefort (Glsn 205) for this buy of a lifetime.

PIZZA FEED and INTERVIEWING WORKSHOP October 21, 1997 6pm Gleeson 200

Summer Experience in Science and Engineering for Youth (SESEY)

July 13 - 19, 1997 Oregon State University Dr. Skip Rochefort, co-director , Chemical Engineering Dr. Michelle Bothwell, co-director, Biological Engineering

Last summer, twenty-four high school students took part in a one-week research experience at Oregon State University through the Summer Experience in Science and Engineering for Youth (SESEY) program. SESEY was funded through a grant from the Camille and Henry Dreyfus Special Grants Program and the OSU Summer Session and Pre-College Program Office. The SESEY program, co-directed by Dr. Skip Rochefort (Chemical Engineering) and Dr. Michelle Bothwell (Biological Engineering), was created to attract girls and minorities traditionally underrepresented in engineering to OSU and careers in science and engineering. The summer 1997 SESEY group consisted of 19 girls and five boys from across the state of Oregon, ranging in class from 9th to 11th grade. In addition, one high school science teacher (Rob Singleton) participated in the program. The goal for the high school science teachers is to create "modules" which the teachers will take back to their classrooms to introduce their students to the field of engineering.

The week-long program included hands-on participation and completion of a supervised research project, workshops on oral and written presentations and computer skills (including email correspondence with OSU President Paul Risser!), and a variety of social activities including use of the Dixon Recreation Center and a trip to the Oregon Coast Aquarium for a "behind the scenes" tour of the engineering facilities. Students were grouped in pairs and placed according to their interests in twelve (12) research projects. Each of the projects was headed by a faculty mentor and either a graduate or undergraduate student advocate. Six projects were in biological engineering and covered topics

including drug formulation and delivery, down-stream processing in biotechnology, and the use of constructed wetlands for waste water treatment. The balance of the projects were in chemical engineering and covered areas such as spin coating on silicone wafers for microelectronics applications, supercritical fluid extraction of oils from peanuts, superabsorbent polymers in diapers, and the formulation of the new ORBITZ drink with gel beads.

Every effort was made to provide the students with a research experience involving concepts or techniques of commercial or social significance which would have some meaning to them. All twelve of the projects were completed, analyzed, and presented to the group of SESEY participants and mentors in a standard "meeting format". The final event of the week was a Saturday morning brunch and "poster session" with all the parents and friends. All of the posters were then placed on display in the COE's "Road of a Thousand Wonders" tent at the annual Corvallis da Vinci Days Celebration of Science and Technology.

This inaugural offering of the SESEY program received excellent positive feedback from students (see following quotes), mentors, and especially parents of the participants, and we expect that the SESEY program will become an "annual summer event" on the OSU calendar. The summer 1998 SESEY program is slated for July 12 - 18.

We would like to acknowledge the support of the Camille and Henry Dreyfus Foundation, the Summer Session Office (particularly Michael Hansen and Andy Hashimoto for all their efforts and encouragement), and finally all the faculty mentors and students in Chemical Engineering and Biological Engineering for volunteering their time for this program. A SESEY Home Page was created by Jake Fitzpatrick, one of the SESEY participants, and can be viewed at <http://www.che.orst.edu/SESEY/>

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SENIOR CLASS ANNOUNCEMENT

Seniors, don't procrastinate! Start updating your resumes now and get down to the career center for information on jobs and internships. Companies are already coming to campus searching for applicants for next falls jobs.

Career Services holds resume writing and interview preparation classes weekly through the first week of November. For information go to the lower level of Kerr Admin. Bldg. or call 737-4085.

Career Days '97, Oct. 29 and 30, 10 am - 3:30 pm, at the MU. Meet representatives from approximately 80 organizations, companies and firms.

- John Williams

Junior Class Announcement

The Junior class is starting the 1997-98 school year with our first year of the professional school. The only change most of us notice is giving more money to OSU. Our smiling faces are not around the building very much this term. We have one CHE course, which only brings us to the building one hour a week. I don't think many are complaining though. Some of the infamous courses the juniors have to take this year are physical chemistry and the momentum, heat, and mass transfer series.

Good Luck in the 1997-98 school year.

-Amy Zelich

Sophomore Class Announcement

Welcome Back!!!

We began the 1997-1998 academic year the way we left off the 1996-1997 academic year, with no ChE courses. Most of us continue to fill our pro-school and bacc. core requirements along with exciting classes like organic chemistry wishing summer had not ended. So I'll leave you with this, ONLY 8.5 TERMS LEFT!!!!

-Eric MacKender

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Graduate students sighted in Gleeson Hall !!!

With migration patterns resembling those of cockroaches suddenly exposed to the unyielding light of the refrigerator, graduate students have been observed bustling through the halls of the chemical engineering building. What their missions, motives, and desires are remain a mystery to most of us who happen upon these desperate souls. Chance meetings usually occur in the computer lab where they are spotted hurriedly checking their email and then banging out the door with a grim look. Who are these people? What purpose do they serve? Can their bodies be used as a substitute automotive fuel? My need to know led me to one Joe Ninosky, the laboratory manager, and a graduate student who could perhaps give me the inside skinny on the doings of these mysterious denizens of Gleeson Hall.

Rxr: Do grad students officially exist here at OSU, specifically, within the chemical engineering department?

Joe Ninosky: Yes, they do.

Rxr: How does one "become" a grad student, and why?

Joe: Well, you have to have your B.S. in ChE, and then you apply to an institution which has the grad program you desire, in my case ChE, and if they accept you, it's a go. Most places want a 3.0 GPA and a decent GRE score, somewhere around 1800. As for why, I'm sure there are many reasons one could have. If you want to brush up on your analytical skills, get some work experience, go into research, or just simply push the snooze button on the alarm clock of life, grad school may be the place for you. I personally had a bit of all the above in my decision.

Rxr: What overall purpose do they serve?

Joe: Grading homework, overseeing lab sessions, doing some grunt work for professors, things of that nature directly affect the undergraduate students. Some grads have jobs within the department which entail a greater amount of effort. I basically fix the equipment, order new stuff, help undergrads out with their senior projects. Nick runs the computer system and takes care of the building in general.

Rxr: You are referring to Nick Wannemacher, the longhaired gentleman in the basement office?

Joe: Yeah, that's right. He's a powerhouse of love down there, getting it done, basically saving the day. He taught me how to do the job I'm doing now, he taught me plenty and really had a lot of patience.

Rxr: If anyone was considering going to grad school, is there anyone they can go to for advice? Joe: You could always ask a professor. No, seriously, I would recommend talking to a grad student who is in the program you are considering going into. Some of the grads have come from other institutions and might be able to tell you about the area or the college you are considering. Actually, as the graduate representative for AIChE, I feel it's part of my job to help out with some words of wisdom for those considering grad school. They can feel free to contact me, we can discuss it over a couple of beers. If they don't drink, well, I guess I'll talk to them anyway.

Rxr: Thanks for your time.

Joe: No problem. Thanks for the beer.

Trivia Quiz

For a limited time only, the first Chemical Engineering student or faculty to answer the following questions correctly will win (drum roll please) ... an AIChE T-shirt. Please submit entries to amated@ucs.orst.edu. Remember, act quick, because there will be only one lucky winner. Good luck.

1. What are the job positions of the comic strip characters Dogbert, Catbert and Dilbert?
2. Of what fraternity at OSU was Linus Pauling a member?
3. What five last names of US presidents are shared by two presidents? (Example, John Doe and Jack Doe).
4. Who invented the "Real Solid Liquid"?
5. A plane crashes on the border of the US and Canada. Where will the survivors be buried?

Course Webpages

Late Sunday night, a panic attack hits. Is tomorrow my Reaction Engineering midterm?!?! Frantically, you search for the course syllabus, but it can not be found. Never fear, all ChE courses this term have a course homepage where you can find the syllabus and more. Go to <http://www.che.orst.edu/cheXXX.html> (where XXX is the course number).

Professor Emeritus OCTAVE LEVENSPIEL receives the 1997 AIChE Warren K. Lewis Award

On November 17, 1997 at the Annual National meeting of the American Institute of Chemical Engineers being held this year in Los Angeles, CA, Professor Octave Levenspiel will be awarded the 1997 AIChE Warren K. Lewis Award for distinguished and continuing contributions to Chemical Engineering education. This is the highest engineering teaching award given by the American Institute of Chemical Engineers, and Professor Levenspiel is one of a very distinguished field of famous Chemical Engineering educators to win this award which has been given annually since 1963. To fully understand the impact Professor Levenspiel has made on the world of chemical engineering education, it is useful to review the selection criteria for this highly competitive award:

The recipient will have made important contributions to chemical engineering education based on one or more of the following:

- 1) Success as a teacher, based on an established command of the subject matter and an ability to inspire students and colleagues to high achievement.
- 2) Contributions of lasting educational significance such as superior textbooks, lectures, and laboratory techniques or models.
- 3) Impact upon the education of chemical engineering students as a result of creative ability. This may be evidenced by scholarly contributions to the literature, inventions, contributions to developments in industry, through consulting, or through government service.

Professor Levenspiel has excelled in not one but ALL of these areas. The award citation will read as follows:

"In recognition of original, unique contributions which made knowledge of chemical reaction engineering a cornerstone of the chemical engineering curriculum and a defining characteristic of the profession"

Professor Levenspiel previously received the 1979 AIChE R. H. Wilhelm Award in Chemical Reaction Engineering, specifically for his contributions to the development of the field of chemical reaction engineering.

It should be noted that on the evening of Monday, November 17th in Los Angeles, a HUGE Chinese banquet will be given to celebrate Professor Levenspiel's Award. All alumni and friends are welcomed to attend the \$25 per plate dinner. Contact Dr. Goran Jovanovic for details.

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AWARDS and RECOGNITION

The 1996 -1997 academic year was a big year for ChE students in the awards department, and I would like to take this opportunity to recognize our students for their accomplishments.

NATIONAL AWARDS

1996 - '97 Barry M. Goldwater Fellowship

NANCY ELDIN (Sr)

Nancy is the first OSU engineering student and one of the few ChE's in the country to win this national award (only two given per state), which is given for outstanding accomplishments and potential for future contributions to science and engineering education. Along with national recognition for Nancy and the OSU ChE program, the Goldwater Fellowship provides full tuition, fees, room and board for Nancy to finish her undergraduate degree.

'96 -'97 TAPPI Student Chapter Outstanding Student of the Year

Daniel Euhus (Jr) -- President of OSU TAPPI Student Chapter

This is the second year in a row that Dan has won this award as the outstanding student Chapter member at OSU. He is truly deserving of the award, serving as President and inspirational leader of the "small band" of TAPPI Student Chapter members. Dan has been very pro-active in leading outreach activities such as paper demonstrations to student groups. He has done all this while managing to work 15 hrs per week as an engineering intern at Fort James Corp. in Halsey. He is also the recipient of an impressive number of scholarship awards, which as of the time we have gone to press include:

- OSU Laurels Scholarship ('95, '96, '97)
- TAPPI Paper and Board Manufacturers Scholarship ('96, '97)
- TAPPI Pacific Section Tuition Scholarship ('95, '96, '97)
- TAPPI Engineering Scholarship (1997)
- Pulp Chemicals Association Scholarship ('96, '97)
- James River Corporation Scholarship (1997)
- Longview Fibre Scholarship (1996, 1997)
- Space Grant Scholarship (1996)

1996-97 AIChE National Scholarship:

Neda Vukmirovic (Sr)

Neda was selected as one of only fifteen winners of the award in a national competition. She was cited both for her outstanding academic record and contributions to the ChE department.

UNIVERSITY AWARDS

'96 - '97 Waldo-Cummings Outstanding Student Award

Presented to several students in each academic year which demonstrate scholarship (GPA > 3.5) and service to OSU and the community.

Rick Osburn (Jr)

Rada Vukmirovic (Jr)

Nancy Eldin (Sr)

Neda Vukmirovic (Sr)

'96 -'97 Drucilla Shepard Smith Scholastic Achievement Award

Presented to students that have maintained a perfect scholastic record (4.0 GPA).

Eric MacKender (Fr)

Nancy Eldin (Sr)

1997 Alpha Lambda Delta Award:

Fransiska Dwikusuma (Sr)

Presented to the graduating senior member of this Freshman Honor Society with the highest GPA.

1997 College of Engineering Burgess-Tektronix Award:

Nancy Eldin (Sr)

Presented annually to the COE graduating senior who is viewed as having the most potential to make contributions to the Oregon electronics industries. Nancy is completing her degree requirements and will be starting a position as a process engineer at HP-Corvallis in January. She also recently became engaged! Congratulations!

1997 OSU Faculty Advisor Of the Year:

Dr. Skip Rochefort

Presented by the OSU Office of Student Affairs to a faculty advisor for their mentorship and contributions to the success of the student chapter. Dr. Rochefort was nominated by the students in the AIChE and TAPPI Student Chapters.

1997 College of Engineering Austin-Paul Award:

Dr. Goran Jovanovic

Presented annually to the COE faculty member who has most influenced the research and extracurricular learning activities of undergraduates. He was particularly cited for his participation each year in the WERC competition, in which 12-15 students from high school through senior year are involved in a national competition to design a process for an environmental clean-up. [GoTo Top](#)
