



AICHE Orange County

NEWSLETTER OF THE ORANGE COUNTY SECTION, AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

No. 128

<http://www.aiche-orangecounty.org>

November 2004

Los Angeles and Orange County Joint Meeting NOVEMBER DINNER MEETING

Student Presentation Competition

Tuesday, November 16, 2004
5:30 PM

The highlight of the November AICHE local section meeting will be Southern California AICHE Student Presentation Competition where students present their own research. The presentation will allow students to improve their communication skills by interacting with practicing chemical engineers. The subject of each paper is left entirely to the student. Some presentations often focus on technical, environmental, social, or global aspects of chemical engineering, but these are only a few of the possible topics. Participation in the Southern California AICHE Student Presentation Competition offers valuable, real-world experience for students. The local AICHE section supports this competition with awards totaling \$1425.

The selected entrants will make their presentation at the November AICHE Local Section meeting. Each speaker will have 15 minutes for the presentation with 5 minutes for questions and answers. A panel consisting of those practicing and retired engineers attending the November AICHE Local Section meeting will judge the presentations.

The three presentations to be made at the

meeting will be:

- **Sugi Wong**, Cal Poly Pomona, Disposal/usage of flue gas desulfurization products.
- **Alice Wu, USC**, Photocontrolled protein folding through the use of surfactants.
- **Marie Donnelly**, Catherine Vo, UC Riverside, Rate of production of methane from coal slurries.

The local section executive committee received many worthy abstracts.

We want to acknowledge the following students and will be presenting them with a \$25 cash award for their efforts.

- Temitope Ogunyoku, UC Riverside, Analysis of material collected on air filter.
- ChemE Car team, Cal Poly Pomona, Design and construction of a small chemically powered car.
- Sandra Hernandez, UC Riverside, Electrodeposition of high magnetic moment FeCoNi films.
- Perla Ayala, Nosang V. Myung, UC Riverside, Electrodeposition of thermoelectric thin films.
- Tommy Farm, N. V. Myung, UC Riverside, Production of thin films of porous alumina.
- Jean Wang, UC Riverside, Size distribution of secondary organic aerosols.

Meeting Schedule:

5:30 p.m.	Social Hour
6:30 p.m.	Dinner
7:20 p.m.	Break
7:30 p.m.	After-Dinner Program



Place: Khoury's Restaurant, Long Beach

110 Marina Dr., Long Beach, CA 90803.

Directions: From the 405 freeway, exit south onto Seal Beach Boulevard and proceed south 2.9 miles to Pacific Coast Highway. Turn right and proceed west for 0.5 miles on Pacific Coast Highway to Marina Drive. Bear left onto Marina Drive and proceed 0.5 miles to the restaurant.

Reservations: Leave a message at our 24-hour toll-free number (1-800-274-3847) or e-mail gsmith@well.com by 5 p.m. on Friday, November 13th. When making reservations, please include your name and indicate whether you are planning to come for the dinner or for the presentation only. Vegetarian meals will not be available unless ordered one day in advance. No-shows for the dinner will be charged (AIChE is charged), so please cancel your dinner reservation by noon the day before the meeting if you are unable to attend.

Cost: Members and guests: \$25 with a reservation, \$30 at the door; Students: \$10 with reservation, \$15 at the door.

Society of Women Engineers (SWE) Orange County Section - Upcoming Events

1. November 14th, 1:30pm

2005 National Conference Committee Location:
TBD, RSVP: Kim O'Rourke at kim.orourke@cox.net

2. November 16, 6pm - Dinner Meeting

Topic: Smart Women Get Rich Speaker: Mai Park,
Morgan Stanley Location: Karl Strauss, Costa
Mesa

3. November 20, 9am-4pm - Sally Ride Science Festival -

Volunteers needed! Location: UCI, Contact: Bear
Ride (Sally's sister) at bear@usc.edu
<http://www.sallyridefestivals.com/>

Legal Corner

KEEP ENGINEERS EMPLOYED TO PROVIDE UNINTERRUPTED SAFETY

Bob Katin

It has been a while since my last Newsletter. Our primary thrust is to make an outstanding presentation at the Sunrise Hearing before the Joint Committee on Boards Commissions and Consumer Protection (JCBCCP) formerly known as the Joint Legislative Sunset Review Committee (JLSRC). JCBCCP will evaluate if we should be made a 1st class engineer. The hearing is scheduled for 9 DEC 2004. If we survive the Sunrise Hearing, in 2005 a bill will be introduced to change the law to make us 1st class engineers.

There is a report that has been issued by the California Performance Review Committee (CPR) established by the Governor that addresses the continuation of the Engineering Board (BPELS). The CPR report can be accessed at www.cpr.ca.gov, is 2500 pages long, eliminates or consolidates many agencies, and will reduce state government expenses billions of dollars a year. The existence of BPELS is not as visible as the other issues that will be raised. BPELS is important, but not critical to the enactment of legislation to make us 1st class engineers. We have the final recommendation of the board that is to our satisfaction and that will be important in demonstrating the validity of the policy we want enacted. Therefore, the existence of BPELS is not our concern. Our thrust is with the law that governs the way the board regulates engineers. If the State Engineers' Act is corrected, a director of a division at the Consumer Affairs Department, which is what is proposed by CPR, might be more efficient, but this is not to be a large enough factor to cause us to have a major presence in the CPR process. A final, but important, point considers the resources needed to address the process. There will be many meetings and it will cover a long period, maybe years. We do not have anyone available to be responsible to watch this process and coordinate our participation, whatever that would be.

The Sunrise Hearing is scheduled before the JCBCCP on 9 DEC 2004. We expect the ISR Study Report will be presented by ISR, BPELS will present their recommendations, CELSOC and



PECG will voice their opposition, and I will present the importance of ChEs regarding public safety and welfare. Key support I need includes:

1. Letters from Deans from Schools of Engineering stating that all engineering disciplines are unique and not just a sub-set of civil engineering. I have an example letter from the Dean of Engineering at Cal Poly Pomona, UC Davis, and UC Riverside. If anyone knows the Deans of other California Schools of Engineering, your support is desperately needed!
2. On 9 DEC 2004, I need to show the JCBCCP that a large number of ChEs in the marketplace have committed to write to the Legislature after legislation is written in JAN/FEB 2005. If you have not already sent me an e-mail stating you support this effort and are willing to write a letter on your company letterhead or a personal letter, PLEASE WRITE ME AN E-MAIL NOW!
3. I need people from major Fortune 500 companies willing to testify on 9 DEC 2004 to say that their company wants the legal right to hire any consultant that they choose, rather than being told they have to hire a civil engineering firm. If you are willing to testify, please contact me!

IN REPLY PLEASE ADDRESS:

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sends out information to the members (mostly CSULB AIChE members) information of school events, available scholarships, and meeting summaries. We also have AIChE shirts being made and will be available to purchase for \$10 in a few days. Future meetings will be on Nov 17 and Dec 8. We'll have officer nominations during one of those days. As for Craig Smith's presentation, he mentioned many things about BP. British Petroleum is the 3rd largest oil company in the US, the 10th largest company in the world, and had an annual revenue of \$182 billion in 2003. He also discussed about the Carson Refinery. They supply 25% of LA gasoline Market and is the key supplier of jet fuel to LAX. He then discussed the top ten reasons to be an intern:

- 10) Better than free training
- 9) Learn how a company works - real life experience
- 8) Improve interviewing skills
- 7) Work is challenging
- 6) Makes important decisions of your future career direction
- 5) Makes important contacts for future jobs
- 4) Looks great on resume
- 3) Break from teachers
- 2) Work with other chemical engineers
- 1) FREE BOOTS

British petroleum will have internship interviews on Nov. 16 on campus in Brotman Hall.

STUDENT CORNER

Cal State Long Beach AIChE Student Chapter November Meeting Highlights

Adrian Balon

Our meeting was yesterday (11/3/04). We had Craig Smith from British Petroleum as our guest speaker who talked about and how important internships are and the opportunities with the company. But before he presented to the chapter members, our president talked about the CSULB AIChE yahoo group. The yahoo group basically

Newsletter Contributors Wanted

The newsletter editor would like to hear from you if you have one or more brief articles to contribute, especially a review or brief discussion of a good website, technical book, etc.



**Professional Engineering
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Our client, based in the Ontario, California area presently has a requirement for a chemical engineer/chemist to lead the manufacturing, formulating and management of new products.

The company manufactures ceramic/ sealer/ stucco/ pigment/ coating related products in which the successful candidate will be mainly formulating new products and assisting in the relocation to a new facility.

The candidate conducts research to develop new products and improve manufacturing processes. Performs tests and takes measurements throughout stages of production to determine degree of control over manufacturing variables. Develops processes from bench to full scale. Problem solving / plant support. Specifies needed equipment to control process, material handling, storage, and packaging of solids and liquids. Analyzes operating procedures and machinery functions to reduce processing time and cost.

Relevant experience in the chemical industry is necessary or relevant practical experience from a Chemical Engineering/Chemistry background. This candidate must be flexible and willing to wear many hats. Lots of production and operations work, but also an opportunity to do process improvement. Excellent creative problem solving, self-motivation and teamwork, are critical skills for the position. Must have good people skills as well as technical expertise in dealing with first line supervisors. Will participate in troubleshooting, monitoring and starting up new facility and operating units.

Must be willing to relocate within a year time to the new facility in Las Vegas, Nevada.

Contact / send resume to Al Morelli at
Searchtec@aol.com (714) 957-1577

Junior to Mid-Level Air Quality Engineering Position

We are looking for a sharp junior to mid-level engineer to join our team. We are a small, highly respected air quality consulting firm. We work on a wide variety of air quality permitting and compliance projects, across a diverse range of California industries and locations. We offer a friendly, team-oriented work environment. The candidate qualifications we are looking for include:

- B.S. degree in Chemical Engineering, Environmental Engineering, Chemistry, or equivalent;
- 3-5 years of work experience;
- Excellent communication and team working skills;
- English and technical writing skills;
- Highly motivated to work in the Air Quality Environmental field; and
- Strong computer skills.

For more information, please contact Judy Yorke at 949-248-8490 ext. 25, or see our website at www.YorkeEngr.com. Please fax resumes to us at 949-248-8499. Or e-mail your resume to JYorke@YorkeEngr.com.

Job Seeking Members can receive a list of web sites of area companies that sometimes hire ChEs. Contact the Senior Member Everett Knell at EWKnell@aol.com to receive this list by e-mail. Put "OCAICHE Company List" in the subject line of your email request.

- ① If you have an employment opportunity in Southern California for a chemical engineer, the newsletter will advertise it for free.



2004 Orange County AIChE Officers

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