



American Institute of Chemical Engineers Knoxville-Oak Ridge Section

For additional information see our Web site at: <http://www.ornl.gov/sci/aiche/>
Or contact: Linda Puckett, puckettlf@ornl.gov, (865)574-6147 or
Lori Daniels, lori.daniels@utk.edu, (865)974-2421

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April 2010 Meeting

Date: Thursday, April 15, 2010
Cost: \$15

Location: Calhoun's on the River, Knoxville TN
Menu: Buffet
6:30 pm Executive Committee Meeting (All members welcome) - Executive Committee Meeting
7:00 pm Dinner (Buffet)
8:00 pm Program – UT Department of Chemical & Biomolecular Engineering Student Awards Banquet

UT Department of Chemical & Biomolecular Engineering will present student awards and students will provide the program for our April 2010 meeting. Traditionally, two student teams are chosen from CBE 411 projects class to present their research or design projects. The teams this year include:

- Allan Long, "Analysis of the dynamics of lipid droplets in fission yeast."
- TBD

This is an excellent opportunity to see the types of research young chemical engineers are performing. As in previous years the audience will be given the opportunity to determine the winning presentation. The winners of the competition will be recognized during the banquet.

In addition, the Outstanding Student and Baccalaureate awardees will be recognized. Congratulations to this year's winners: Okan Serpersu – Outstanding Student awardee and Christopher Renner – Outstanding Baccalaureate awardee.

Area high school chemistry students and their teachers are especially welcome to this meeting, which will provide an opportunity for high school students with interests in chemistry and engineering to learn more about opportunities in chemical engineering.

The local section will pay for up to 15 High School students from the local area.

If you know of someone who would be interested in attending this meeting, please provide their name(s) to us so that we can be sure to invite them.

Please make your reservations by April 14, by contacting

Linda Puckett, puckettlf@ornl.gov, (865)574-6147 or
Lori Daniels, lori.daniels@utk.edu, (865)974-2421

Further information on the Chemical & Biomolecular Engineering Department is available at <http://www.engr.utk.edu/cbe>.

Resume Tips: Five Ways to Grab Employers' Attention

The following is an article by Deborah Walker, Certified Career Management Coach and President of Alpha Advantage, Inc. (<http://www.alphaadvantage.com/>). The article describes several ways to improve your resume in order to grab the attention of prospective employers.

With today's level of competition for good jobs your resume has got only one chance to make a great first impression. To be considered for interviews your resume must have that special something that grabs the reader's attention and motivates them to call you. Here are five strategies for transforming a blah document into a WOW resume that will get employers calling you.

1. Keep your focus clear and to the point.

The first thing potential employers need to know is what you do and the position you are interested in. In the past, job seekers have used an objective statement at the top of their resume to indicate their employment interest. With the lightning speed scanning approach that recruiters take in viewing resumes, a wordy, vague objective statement taking up three or more lines of text just doesn't get the job done. In most cases they don't get read.

Instead, write a short, direct professional summary that clearly

illustrates your career focus. Your statement should include your profession, how long you've done it and your particular areas of expertise. Something to the effect of:

Senior purchasing professions with 10 years' procurement expertise in: strategic sourcing, contract negotiation, financial analysis, strategic planning, leadership, contract law and process improvement.

Remember, your resume is not an historical tell-all. To keep your focus clear make sure that everything following in your resume relates to your focus. Leave off extraneous details.

2. Stuff your resume with key words.

The more key words you use the more frequently your resume will show up in online searches like LinkedIn, TheLadders and CareerBuilder, etc. Additionally, employer resume data bases also use key words to query for qualifying candidates. Without appropriate key words your resume will be electronically ignored. Without key words, your resume is being shot off into a black void each time you submit it.

A good way to make sure your resume is full of key words is to check it against job postings. Use as many of the key words found in the

responsibilities and qualifications sections of job postings. As much as you can, match up your terminology with what you find in job postings.

3. Keep your resume reader-friendly.

Nothing gets ignored like a resume full of lengthy blocks of text. No one has time to read through that much information. Resume screeners need to be able to absorb your information quickly. Leave out extraneous details so that key facts show up easily. Separate blocks of text into smaller easy-to-digest snippets of information. Use white space to separate bullet points so that each stands out. Be sure that your font size is readable: nothing smaller than 11 point.

4. Include plenty of accomplishments.

If you want to stand out from the crowd you must include accomplishments throughout your resume. Write accomplishments that show how you solve universal problems such as saving time, cutting costs, improving performance and increasing customer satisfaction. Your accomplishments should stand out on your resume in bullets separate from your responsibilities. Don't make the common mistake of combining responsibilities and accomplishments in a long list of bullets. List your responsibilities in a

small block of text and your accomplishments in bullet form following.

5. Get your best information on page one.

It's true, if you can't grab their attention on page one they won't stick it out to find out the wonderful things you've got on page two or three. This presents a problem for those who experienced their most productive work five or more years back. The solution is to use the hybrid resume format that allows you to create a highlight of accomplishments section at the top of page one of your resume. This area of your resume is reserved for the best examples of your work. The accomplishments you include should illustrate the key transferable skills needed for the position you are interested in.

Don't delay in implementing these resume changes. Employers are waiting for you with opportunities for a better career and a better life.

Please contact Deborah Walker for additional information, at: Deb@AlphaAdvantage.com 360-260-4965

Southern Appalachian Science and Engineering Fair

The Southern Appalachian Science and Engineering Fair (SASEF) was held at UT's Thompson Boling Arena on March 29 - April 1, 2010. Students from across the southern Appalachian area participated in the Fair.

The Knoxville-Oak Ridge AICHE Section awarded two prizes at the SASEF for the best chemical engineering related projects in the

Junior and Senior divisions. The winners of the \$50 prizes were "Ice Breakers" by Matt Holloway of Sacred Heart School, Knoxville (Junior Division) and "2-Cycle Biodiesel Oil for Small Engine Operation" by Evan Baldy and Marcus Scheirmann of Morristown-Hamblen East High School (Senior Division). Matt compared the ice melting properties of salt, sugar, pepper and

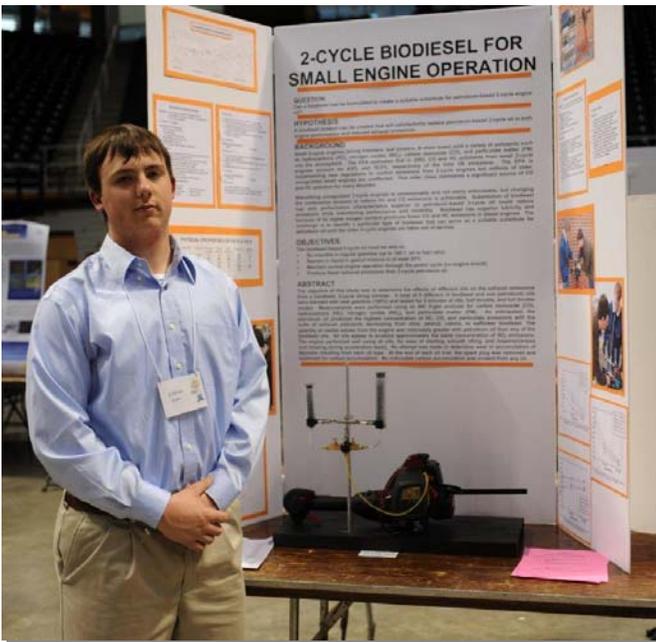
sand. Evan and Marcus tested biodiesel as a substitute for petroleum oil as a lubricant in gasoline for 2-cycle engines and measured the emissions from the engine.

Congratulations to Matt, Evan, and Marcus for their hard work and for being excellent representatives for their respective schools.

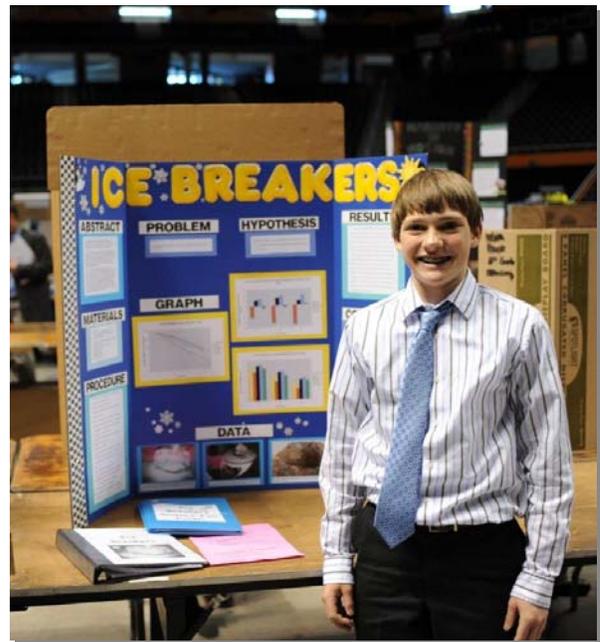
AICHE members Paul Taylor and Mark

Swintoniewski served as judges of this Special Awards event and were outstanding ambassadors for the local section.

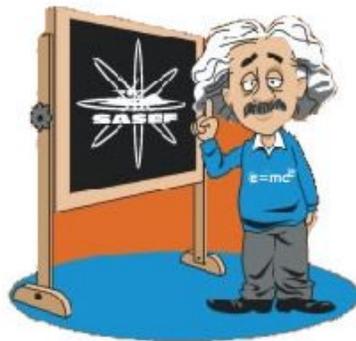
Photographs and logo are courtesy of photographer Clarence Bolton, beforeyoublink.com.



Senior Award Winner: Evan Baldy and Marcus Scheirmann (not pictured), Morristown-Hamblen East High School



Junior Award Winner: Matt Holloway, Sacred Heart School



Job Opportunity

Candidates are being sought for the following position in the Memphis TN area.

Senior Chemical Engineer

Description: Ideal candidate is a chemical engineer with recent experience in capital projects and scaling-up/commercializing new chemical products. If you want to lead in a growing company, this is a terrific opportunity.

Company: Growing Specialty Chemical Company. Our client is an impressive private chemical company. High integrity people. Company has history of growth. Progressive, well-managed company.

Why this Job is Important: The manager of this position is looking for a chemical engineer who loves to work together in a growing company, creating new things, new products, new infrastructure, - and all that comes with that.

What you will be doing:

1. Managing capital projects
2. Design new processes, pilot, scale up, commercialize new products

No direct reports to this position.

What we'd like to see in Your Background:

1. Project management
2. Pilot, scale-up, commercialization of new products
3. BS, Chemical Engineering - absolutely required

Location: Memphis TN suburb

Compensation: Base Pay \$80-100K+, depending on experience. Bonus potential. Full benefits. Relocation for top talent. (If this job does not carry your compensation requirements, apply anyway. The company has been known to stretch for top performers.)

Sound too good to be true? We want you to talk to employees, and see for yourself.

If you are interested in this position, please contact:

Ellen Payton
Account Executive
and Executive
Recruiter

Reitzer Group
International
Jonesborough, TN

423-753-0059, Ext
108 (Office, 8-5
Eastern)
423-202-6586 (Cell,
anytime)

Ellen has been a

corporate or executive recruiter for 15 years, placing top talent in senior positions, helping people grow their careers, and helping companies grow their business.

She is a Certified Senior Account Manager, a designation given to those that are recognized leaders at MRINetwork Worldwide and are ranked consistently at the top of their profession.

Ellen has an MBA from The University of TN and a BS in Computer Science from VA Tech.

Activities Calendar

Date	Time	Topic	Speaker	Location
Apr 15	7:00 PM	U.T. Student Awards Night	Student presentations and awards ceremony	Calhoun's on the River, Knoxville, TN
May 20		eChem Expo Solutions Marketplace		Meadowview Convention Center, Kingsport, TN
May 13	6:00 PM	Solar Augmented Steam Cycles	Gary Golden, Electric Power Research Institute	Calhoun's at Turkey Creek
June 4-6		Leadership Development Conference		Kingsport, TN
Nov 7-12		2010 Annual AIChE Meeting		Salt Palace Convention Center, Salt Lake City, Utah

Sponsoring Opportunities

We continue to accept advertising in the newsletter in order to provide funds to support student participation in the meetings.

Rates per newsletter are:

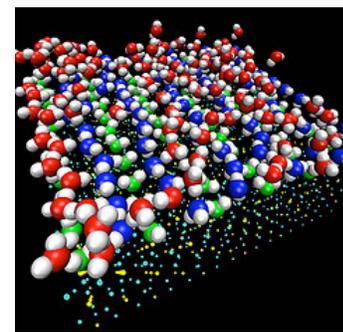
\$80 full-page advertisement

\$45 half-page advertisement

\$25 quarter-page advertisement

The section will also continue to accept individual or corporate sponsors to provide student meals at section meetings. The sponsor will be recognized at the meeting and in the Newsletter.

The cost to sponsor one meeting is **\$200**. It's a great way to encourage students to attend the local meetings and become future members in the Institute!



Courtesy of Oak Ridge National Laboratory at <http://www.flickr.com/photos/oakridgelab/page3/>

"If you're not part of the solution, you're part of the precipitate."

*Stephen Alexander Wright
1955 - American comedian, actor,
and writer*

Officers

Chair:	Jacob Hutton	560-1706	jacob.hutton@power.alstom.com
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Term ends 2012	Stuart Daw	946-1341	dawcs@ornl.gov
Term ends 2012	Richard Denney	458-8875	rgdenney@charter.net
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We're on the Web!

See us at:

<http://www.ornl.gov/sci/aiche/>

Editor: B. Lewis

About Our Organization – AICHE's Leadership Webinars

The AICHE's ChemE on Demand web-site provides members with a variety of technical and instructional resources, including Webinars (web seminars), which are available either as live webcasts or on-demand from the AICHE archives. Webinars provide access to AICHE's e-learning initiative covering current and informative topics of interest to all chemical engineers in an accessible at-your-desk format. From career building skills and technical instruction to state-of-the-industry overviews, AICHE's webinars are an invaluable resource for keeping you and your staff up to date.

Each at-your-desk **AICHE Webinar** features one or more subject-matter experts. During the live presentation, participants are invited to ask questions of the speaker(s). In the archived versions, this Q&A is included in the recording.

The next Webinar series begins with "AICHE's Leadership Webinars: Visions of the Future form Industry Leaders (Session One). This Webinar will be presented by Henry T. Kohlbrand of The Dow Chemical Company live on Wednesday, April 14, 2010 from 2:00 to 3:00 p.m. (EST). (Please note that this **live event** takes place at the time indicated. The Webinar will be available on-demand from the AICHE archives several days after the live presentation.) A synopsis of the Webinar follows:

Our capacity to understand the key trends that will shape the future of chemical engineering will determine how we need to prepare ourselves personally and professionally. Input from industry leaders on their views of the many factors and drivers for future change can give us valuable insights as to training, education, and career development

opportunities that allow us to meet the future head-on. Business trends such as globalization, sustainability, and changing business models combined with key mega trends such as energy, water, infrastructure, transportation, and health/nutrition will greatly impact the roles of chemical engineers.

In this session of the webinar series, Hank Kohlbrand discusses how these trends will impact us, as well as looking at the role that science and technology will play in these changes. He will also address future skills needed for success, the needs of large employers in the future, and how we, as chemical engineers, can use our abilities to benefit the world.

(Information from the National AICHE web site at <http://apps.aiche.org/chemeondemand/LiveWebinars.aspx>)

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