



## American Institute of Chemical Engineers Knoxville-Oak Ridge Section

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For additional information see our Web site at: <http://www.ornl.gov/sci/aiche/>  
Or contact: Linda Puckett, [puckettlf@ornl.gov](mailto:puckettlf@ornl.gov), (865)574-6147 or  
Christina Wilson, [csoto@utk.edu](mailto:csoto@utk.edu), (865)974-2421

## January 2012 Meeting

Date: Thursday, January 19, 2012  
Cost: \$20  
Location: Calhoun's, Turkey Creek, Farragut, TN – Private dining area  
Menu: Buffet (Special menu available upon request)

5:30 pm Executive Committee Meeting (All members welcome)  
6:00 pm Dinner  
7:00 pm Program – Mr. Carter Boardman, TBD, **Consulting Liabilities and Ethics**

**Abstract** – Thinking about hanging your own shingle and becoming a self-employed consulting engineer? While you need to know the mechanics of how to do it, you also need to ask the question, "Why I want to do it?" From risk management, contracting, insurance, taxation, business development to identifying your expectations to make sure they can be harmonized with reality, this short seminar wades through piercing issues of going into business for yourself. We will also spend a few minutes discussing ethical dilemmas.

**Bio** – Carter has over 33 years of contract/subcontract administration experience on a wide range of engineering and construction projects. Carter worked for Morrison Knudsen Corporation for 20 years on major construction, construction management and environmental projects throughout the United States. He spent 13 of those 20 years on field projects ranging from hydroelectric projects, to waste water projects to the Detroit Downtown People Mover. After Morrison Knudsen, Carter worked for Bateman Engineering Inc. for 4 years on mineral and oil & gas projects both domestic and foreign. Carter presently works for Merrick & Company as their Director of Contracts and Risk Management and oversees their client contracts, professional service subcontracts, risk management, export control and serves as Merrick's small business liaison officer, export officer and ethics officer.

Carter is the Chairman of the Board of Merrick International Services, Inc., a subsidiary of Merrick & Company and also serves as the Secretary of Merrick Canada ULC, Merrick's Canadian subsidiary.

Carter is the past President of and presently serves on the Board of Directors of the Risk and Insurance Management Society (RIMS) Rocky Mountain Chapter.

Carter is an avid fly fisherman and in his spare time you will find him fishing on Colorado's beautiful streams and lakes.

**Please make your reservations by noon, January 19, by contacting**

Linda Puckett, [puckettlf@ornl.gov](mailto:puckettlf@ornl.gov), (865)574-6147 or  
Cristina Wilson, [csoto@utk.edu](mailto:csoto@utk.edu), (865)974-2421

**The Section will subsidize up to 15 students, including graduate students**

## LinkedIn – Another Tool in a Professional’s Toolbox

I think that most everyone reading this article has a *Facebook* account or at least has heard of *Facebook*. People of all ages use *Facebook* to stay in touch and share their life stories with their friends, relatives, and coworkers. Some *Facebook* users go a bit further and share their life stories with the other 800 million active *Facebook* users across the planet. I am not sure why anyone would be interested in what I am cooking for dinner, but I’ve seen people post this as well as many other seemingly meaningless thoughts on their *Facebook* page. Enough about *Facebook*, this article is about a service similar to *Facebook*, but for professionals. The service is called **LinkedIn**, (<http://www.linkedin.com/>) the world’s largest professional network with more than 100 million members.

What sets **LinkedIn** apart from *Facebook* is the technical nature of the information being requested and shared. I recently discovered that within **LinkedIn** I could join “Groups”. As my background is process engineering, I signed up to be a member of the “Process Engineer Group”, “Combustion Engineer Group” and the “Industrial Air Pollution Control Group”. LinkedIn sends an e-mail to me most every day with a listing of new discussions within each group. Members of the group post questions to the group and receive answers from others within the group, many times the same day, and from all over the world. Here are a few of the recent technical discussion topics:

- What is Technical Safety and how it relates to other industrial safety concepts?
- What are the parameters that can be used to say that an organization has an ISO 9001 effective quality management system?
- How can heat exchange surface scaling/fouling be avoided or minimized in a melt crystallization process?

- Calculation of flow distribution in a piping network.

Many times the people responding to the question are industry leading consultants or engineers who have experienced similar problems at their site. This knowledge base of free consulting can be quite valuable. But recognize the obvious, many of these people sharing their experiences are hoping to develop relationships with other potential customers in hopes of getting payable work – they need to put food on the table too. Many times the suggestion from a group member is exactly what one needs, a contact in the industry that can provide technical direction for a particular problem or issue. For example, I have seen posts within a group asking if anyone knows of a company that provides a specific product or service in northern Africa and a number of people responded with the contact name and information needed.

**LinkedIn** can also benefit those people who find themselves in the unfortunate situation of being underemployed. The **LinkedIn** groups can be a very good source of job opportunities. Very seldom does a day go by that someone does not post a job opportunity. I have noticed that usually the person posting the opportunity is a head hunter but there have been many job postings by companies looking for direct hires. Granted, the head hunters could be just fishing for names to add to their inventory of potential candidates for future opportunities, but if you are underemployed it does not hurt to reply and throw your name into the mix. Even in a down economy there are usually several job postings in the networking groups every day. Here are a few of the recent job postings in the “Process Engineer Group”:

- Technical Manager – Fonterra, New Zealand
- Field Process Engineer – Aixtron, Inc., San Francisco Bay Area

- Senior Consultant – KBC Advanced Technologies, Houston, Texas
- Quality Engineer – Carlisle Interconnect Technologies, Jacksonville, Florida

I have also noticed that many people on **LinkedIn** post a complete resume of their past and current experience as well as education on their **LinkedIn** profile. If you look at my public profile, mine is somewhat skimpy. I plan one day soon to add more information to my profile. I had a connection recently remind me that I have not added a picture on my **LinkedIn** profile, (most people do) so I added one. People who are not within your connections can search for your name and see certain, “public” information about you. But before they can see the complete profile information you must first approve them as a “connection” (for those *Facebook* fans, “friend them”).

Again, for those who are underemployed, this is a good way to get your name and credentials out there for others to see; basically free advertising. Sign up at <http://www.linkedin.com/>, create a profile, and start enjoying the benefits of sharing your expertise with others of similar interests. And if you want, add me to your list of connections. You can never have too many connections.

Michael Aident  
Oak Ridge-Knoxville Section AICHe  
outgoing Chair

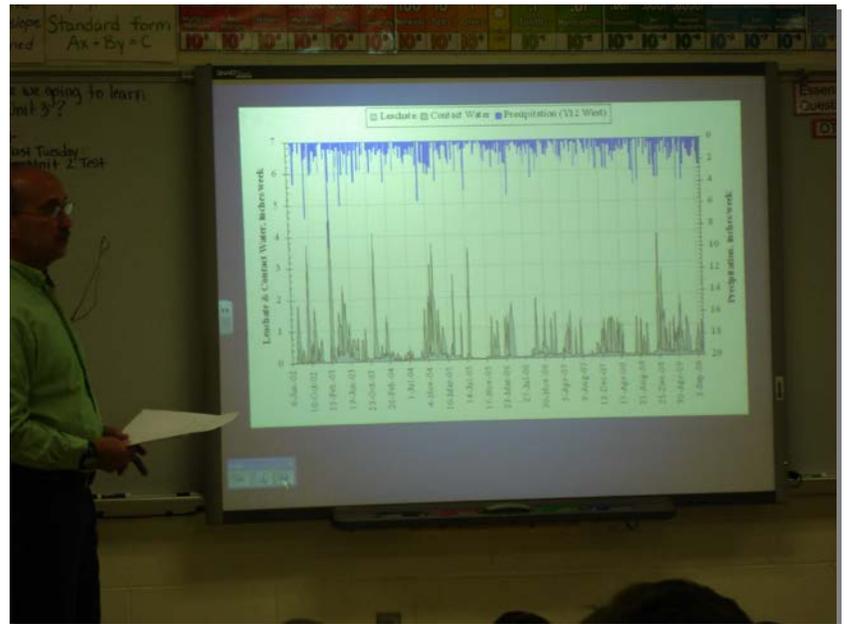
## AIChE STEM Involvement

The Volunteers for STEM (Science, Technology, Engineering, and Mathematics) is a great way for local AIChE members to become involved in the encouragement of young students to pursue a technical career path. When a request came in from Karns Middle School, Mark Swintoniewski volunteered. Melissa Chambers and Kim Blankenship, Karns Pre-Algebra and Algebra I teachers requested someone to show their students how Math is used in “real life” situations. Mark had recently published a technical paper and used a portion of his work to show the students how Math and the Scientific Method are really used in solving engineering problems. That published work involved the assessment of the risk of a spill of contaminated water from a mixed waste landfill. Mark’s presentation showed the effect of varying circumstances on the time before a spill would occur using algebraic equations. Mark also showed the students how the scientific method was used to set up an understanding of the problem and a hint to possible solutions. According to Mark, “The best part of the presentation was observing the students that were engaged in thinking about my information by the questions asked during my visit. Why were other better alternatives not implemented? (Answer: cost is always a factor) Why do we have to make waste in the first place? (Answer: every product produces some waste; an engineer’s job is to find ways to produce less waste)”

Help encourage learning by becoming a STEM Volunteer. The best peer review your work may have is through the eyes of our young students.



**Fig. 1. Knoxville-Oak Ridge Section member, Mark Swintoniewski volunteers to give presentation to Karns Middle School students on the use of mathematics in solving real life problems.**



**Fig. 2. Mark Swintoniewski discusses the use of algebraic equations and the scientific method in a recent study on the risk of a spill of contaminated water from a mixed waste landfill.**

## Local Section Election Results

The ballots have been counted and the results of the Local Section election sanctioned. Of the 99 voting member, a total of 15 ballots were cast to elect the following local section officers and directors for 2012:

Chair: Jarrod Clark (automatic succession)

Chair Elect: Abhijit Tarafder

Secretary: David DePaoli

Treasurer: Paul Taylor

New Directors 2012-2014:

Thomas Busmann and  
Kyle Mack

Continuing Directors 2011-

2012: Michael Hollander  
and Sharon Robinson

Director – Past Chair: Michael

Aident (automatic  
succession for 2012)

Please congratulate our newly elected officers and directors and continue to support the local section by participating in section activities.

Every vote counts, so please don't forget to exercise your right to vote whenever the opportunity arises.



## Recognition of Member Awards and Honors

The local section would like to recognize our members that have received awards or honors associated with their service to the profession or the community. If you have received an award or honor, or know of others that have received an award or honor for their service, we would appreciate it if you would share the details so that we could recognize these accomplishments in the newsletter.

Please forward your input to either Linda Puckett ([puckettlf@ornl.gov](mailto:puckettlf@ornl.gov)) or Ben Lewis ([lewisbejr@ornl.gov](mailto:lewisbejr@ornl.gov)).

## December Meeting Recap - Planning for Retirement at Various Stages in your Life/Career

At the December 8<sup>th</sup> meeting of the Knoxville-Oak Ridge Section of AIChE David Moon, President of *Moon Capital Management*, informed and entertained the group with a presentation on planning for retirement at various stages in your life/career. He provided insight on the evolution of retirement savings from employer-directed pensions to self-guided plans and identified potential pitfalls in achieving a financially sound retirement. Also, Mr. Moon spent time addressing the current investment dilemmas of low interest rates and uncertain economic growth.

## Recruiters Not Calling You?

### Five Reasons Why—And How To Fix It

This is a reprint of an article that we posted in the January 2011 edition of the Newsletter. If you are seeking employment, the advice offered here on resume preparation will assist in your search.

You've been hoping for a new job, but your phone is silent. Does this sound like your job search efforts?

- You've sent out hundreds of resumes but received little or no response.
- You've left dozens of voicemails to recruiters — and they never return your call.
- You've tweaked your resume so many times you no longer recognize it.

Many talented, qualified job seekers get ignored by recruiters and hiring managers simply because their resume has one or more of the following problems.

#### 1. Your resume highlights your lack of industry experience

If you lack specific industry experience, try highlighting your transferable skills. Job seekers who lack industry experience can make it past the resume screener by proving their ability with skills they have that transfer from industry to industry. Examples of transferable skills include expertise gained in sales, customer service, finance, accounting, negotiation, cross-functional communications, and/or team building.

#### 2. Your resume shouts "Overqualified!"

Nothing scares off a recruiter faster than a candidate who is obviously overqualified for the job. The two main concerns are (1)

that the candidate would soon get bored and leave at his earliest convenience, and (2) that the candidate would be too expensive to hire.

There are many valid reasons job seekers wish to downsize to jobs with fewer responsibilities. Whatever your reasons, tailor your resume to fit your current career objective. This means you'll want to play down your prior responsibilities, list only relevant education (don't list a Ph.D. if you are applying for a mid-level management position!), and emphasize tactical experience over strategic planning when appropriate.

#### 3. Your resume is crammed with information, but not the right kind

You'll catch the recruiter's attention if you have a clear, easy-to-read resume that highlights your skills and accomplishments, even at a glance. The first rule of resume effectiveness is relevancy, so edit out the past data and redundant facts that aren't relevant to your current career path. Fill your resume only with the skills needed for that particular job.

#### 4. Your resume has too little information

A resume that looks more like an outline just doesn't give the reader enough to work with. Recruiters don't want to guess what you did at your last job. You need to include enough information to give prospective employers a vision of the possibilities if they choose to hire you.

#### 5. Your resume doesn't include accomplishments

Remember, as a job seeker you are selling your talents, and you are competing with many others who have the same qualifications

as you do. Accomplishments give recruiters a reason to choose you over others for the interview short list. Highlight how you have saved time, increased efficiency, cut cost and increased client satisfaction. After all, if you don't tell them, nobody else will!

If you use this five-point checklist to restructure your resume, you'll soon hear back from recruiters who appreciate qualified, articulate and confident candidates. The time you spend enhancing your resume could shave off months of fruitless labor and frustrating effort in your job search.

Article courtesy of Deborah Walker, Certified Career Management Coach

Read more career tips and see sample resumes at: [www.AlphaAdvantage.com](http://www.AlphaAdvantage.com)

Email: [Deb@Alphaadvantage.com](mailto:Deb@Alphaadvantage.com)



(PPPL Stellarator - Source: DOE Digital photo archive at: <http://www.doedigitalarchive.doe.gov/>)

“All things are difficult before they are easy”

**Thomas Fuller**  
English Clergyman  
1608-1661

## Activities Calendar

Date	Time	Topic	Speaker	Location
Jan 19	6:00 PM	Consulting Liabilities and Ethics	Carter Boardman	Calhoun's, Turkey Creek
Feb	6:00 PM	Joint Meeting with ANS	Don Hofman	TBD
Mar 15	6:00 PM	Process Safety Analysis, PHA, HAZOP	Bill Bradshaw, ABS	Calhoun's, Turkey Creek
Apr 1-5		2012 AIChE Spring Meeting		Houston, TX
Apr 19	6:00 PM	Biodiesel Byproduct Chemicals	Shirley Liu	Calhoun's, Turkey Creek
May 17	6:00 PM	McClung Museum Tour	Stuart Daw to arrange	McClung Museum at UT
Oct 28-Nov 2		2012 Annual Meeting		Pittsburg Convention Center

## 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!



(1597 Astrolabe - Source: DOE Digital photo archive at: <http://www.doedigitalarchive.doe.gov/>)

"Any sufficiently advanced technology is indistinguishable from magic."<sup>1</sup>

## Officers

<b>Chair:</b>	Jarrold Clark	276-1867	<a href="mailto:jarrod.clark@merrick.com">jarrod.clark@merrick.com</a>
<b>Chair-Elect:</b>	Abhijit Tarafder	974-0735	<a href="mailto:abhijit.tarafder@ion.chem.utk.edu">abhijit.tarafder@ion.chem.utk.edu</a>
<b>Secretary:</b>	David DePaoli	574-6817	<a href="mailto:depaolidw@ornl.gov">depaolidw@ornl.gov</a>
<b>Treasurer:</b>	Paul Taylor	574-1965	<a href="mailto:taylorpa@ornl.gov">taylorpa@ornl.gov</a>
<b>Directors:</b>	Michael Aident	694-7333	<a href="mailto:Michael.Aident@shawgrp.com">Michael.Aident@shawgrp.com</a>
<b>Term ends 2012</b>	Michael Hollander	300-5645	<a href="mailto:enviroms@att.net">enviroms@att.net</a>
<b>Term ends 2012</b>	Sharon Robinson	574-1150	<a href="mailto:robinsonsm@ornl.gov">robinsonsm@ornl.gov</a>
<b>Term ends 2014</b>	Thomas Busmann	453-3538	<a href="mailto:tbusmann@focusenv.com">tbusmann@focusenv.com</a>
<b>Term ends 2014</b>	Kyle Mack	(423)747-7947	<a href="mailto:kylematthewmack@gmail.com">kylematthewmack@gmail.com</a>
<b>Membership:</b>	Paul Taylor	574-1965	<a href="mailto:taylorpa@ornl.gov">taylorpa@ornl.gov</a>
<b>Newsletter:</b>	Linda Puckett	574-6147	<a href="mailto:puckettlf@ornl.gov">puckettlf@ornl.gov</a>
<b>Webmaster:</b>	Ben Lewis	574-4091	<a href="mailto:lewisbejr@ornl.gov">lewisbejr@ornl.gov</a>
<b>E-mail:</b>			<a href="mailto:aiche-chat@chem.engr.utk.edu">aiche-chat@chem.engr.utk.edu</a>
<b>Website</b>			<a href="http://www.ornl.gov/aiche">http://www.ornl.gov/aiche</a>

**Arthur C. Clarke**  
English author  
1917-2008

## Knoxville - Oak Ridge Section

P.O. Box 2008  
Bldg. 4500N, Room B12  
Oak Ridge, TN 37830-6243

Phone: 574-1965  
Fax: 574-6872

E-Mail: [aiche-  
chat@chem.engr.utk.edu](mailto:aiche-chat@chem.engr.utk.edu)



◆————◆  
We're on the Web!

See us at:

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

Editor: B. Lewis

### About Our Organization – Networking Opportunities

Membership in the AIChE provides numerous opportunities for you to build and maintain a meaningful network and obtain career support and inspiration from colleagues. Some of these opportunities are:

- [Local Sections](#) — Stay connected close to home.
- [Divisions and Forums](#) — Exchange information and make alliances with engineers who share your specialty.
- [National Committees](#) — Join discussions on AIChE activities and programs.
- [Online Member Directory](#) — Keep in touch with members across the country. Networking with your fellow chemical engineers is critical to your career and also provides a social network wherever you live. AIChE's various

groups help foster this network.

### Get Involved in AIChE's Online Community, ChEnected.

- **See important updates** on conferences, institute news, and industry news.
- **Participate by commenting and sharing** important content with your network.
- **Visit ChEnected's Career Page** for the latest job and grant information.
- **Become a ChEnected contributor** by signing up at [ChEnected.com/contribute](http://ChEnected.com/contribute).
- **Get Social. Join us** on [LinkedIn](#), [Facebook](#), [Twitter](#), [YouTube](#), [Flickr](#), and

[Slideshare](#).

- **Subscribe** to the [ChEnected RSS Feed](#).

(Source: AIChE web site  
<http://www.aiche.org/CareersEducation/Networking/index.aspx>)

P.O. BOX 2008  
BLDG. 4500N, ROOM B12  
OAK RIDGE, TN 37830-6243

