

# AIChE

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

## NEWSLETTER

May 2004

### *NEXT MEETING*

Joint meeting w/  
AWMA  
EAST TENNESSEE CHAPTER  
OF  
SOUTHERN SECTION



## Coal Gasification: What are you afraid of?

Presented by Bill Trapp, P.E.  
Gasification Services Manager  
EASTMAN CHEMICAL COMPANY

With nearly 50% of the power generation in the U.S. coming from coal and the recent volatility in natural gas prices, it is clear that coal will remain a primary electricity feedstock for the foreseeable future. Yet, the current political climate in the U.S. has labeled coal and the predominate generation technologies as “environmentally challenged”, incapable of meeting needed emissions goals. Coal Gasification, and in particular Integrated Gasification Combined Cycle (IGCC) technology, stands as a solution to these two seemingly competing realities. Yet, just as coal is sometimes unfairly characterized by those outside the industry, gasification technology has also been mislabeled as an unproven, unreliable, and costly technology. At Eastman Chemical Company, we have been using coal gasification for over 20 years in a reliable, safe, and cost effective manner. This presentation will cover the basics of gasification and how it can be used to make chemicals, transportation fuels, and electric power and attempt to dispel many of the misconceptions surrounding gasification. It will also address the concerns that have kept this technology from being adopted by the major energy producing entities in the U.S.

Bill Trapp is a Manager in the newly formed Eastman Gasification Services Company. Bill has 24 years of experience with Eastman Chemical Company in various positions mostly in Manufacturing and Technology. He has over 12 years experience in coal gasification first as a start-up/process engineer in the mid 1980's, then as Superintendent of the Gasification Department in the late 1990's and now 2 years in Gasification Services. Bill holds a B.S. degree in Chemical Engineering from Clemson University and is a licensed Professional Engineer in Tennessee and Illinois.

### LUNCH MEETING

Friday, May 21, 2004 at 11:30 a.m.

### LOCATION

Sagebrush Steakhouse & Saloon  
390 South Illinois Avenue  
Oak Ridge, Tennessee

*Cost for the Meeting and Lunch is:*  
\$10.00 for Members

*The Section will subsidize 15 students!*

For reservations, please call, Linda Puckett at 574-2108 ([puckettlf@ornl.gov](mailto:puckettlf@ornl.gov)) or Betty Frazier at 974-2421 ([bfrazier@utk.edu](mailto:bfrazier@utk.edu)) by **Wednesday, May 19, 2004.**

### **Sagebrush Menu**

*Cost includes choice of one lunch item, drink, tax and gratuity.*

#### **Chef Salad**

Mixed garden greens topped with ham, turkey, cheese and assorted vegetables

#### **Grilled Chicken Salad**

Our large garden salad topped with strips of grilled breast of chicken

#### **Grilled Chicken Breast**

Marinated Chicken Breast – lightly seasoned and grilled to juicy perfection, served over rice with choice of one side.

#### **Mushroom Swiss Burger**

Our classic angus burger topped with melted big-eye swiss cheese and grill mushrooms; served with choice of potato.

#### **Buffalo Jack - Fried Chicken Sandwich**

Tossed in our tangy Buffalo pepper sauce topped with melted Monterey Jack cheese and served with a side of bleu cheese and choice of potato

#### **Sagebrush Cheeseburger**

Our lonesome burger topped with your choice of cheese and served with choice of potato.

#### **Traditional Club Sandwich**

Thin slices of baked ham and smoke turkey are piled high with crisp bacon, american cheese and all the fixin's; served with choice of potato.

2004  
AIChE  
Outstanding  
Baccalaureate  
Award:

**Jared M. Henry**

*Photo Right*



## Student Award Night April Meeting

Two student teams from UT Chemical Engineering Department provided the program for the April Meeting and the members in attendance voted on the presentations.

1st Place: In-Class Demonstrations

Antonio Scott Elliott\*

Ryan Scott Linebarger\*

Sandra Lux

Michael Blake McClain

2nd Place: Fluidized Bed

Tokunba Nicole Ademola\*

David Lloyd McCollum

Condou Samba

Kristin Danielle Thomas\*

\* These students could not attend.



2004  
AIChE Outstanding  
Junior Award:

**Bradley P. Jaquith**

*Photo Above*



Student Presenters: from left Sandra Lux, Michael McClain, David McCollum, Condou Samba.

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## SPONSORING OPPORTUNITIES

*The Knoxville Section is looking for 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!*

## INSTITUTE NEWS

Visit the AIChE Web site  
(<http://www.aiche.org>)

to stay current, to learn about the AIChE, new programs and opportunities, and to more fully enjoy the benefits of participation in AIChE.

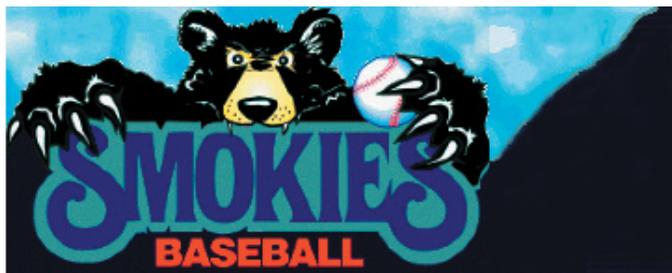
## SECTION INFORMATION

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Gatlinburg Pittman High School Students and Teacher in attendance at the UT Student Awards meeting. From left: front row: Justin Gonzales, Katelyn Busmann, Milena Marshall; back row: Mr. Bill Baker, Teacher.



**Tuesday August 24, 2004**  
**picnic @ 5:45 p.m.**  
**game @ 7:15 p.m.**  
**\$16 per person**



Tennessee Smokies versus the Greenville Braves

Items on Buffet include:

Hamburgers	Hot Dogs	Pepsi products
Baked Beans	Cole Slaw	BBQChips
Cookies		

## REMINDER

If you would like to save us the cost of mailing a hard copy of the Newsletter to you, please provide us with an email address. If you change email addresses, let us know so that you will receive future electronic copies. Contact Linda Puckett ([puckettlf@ornl.gov](mailto:puckettlf@ornl.gov)) for more information.