

March Newsletter

SPECIAL INTEREST ARTICLES:

- * MARCH MEETING – RESULTS OF THE MACT COMPREHENSIVE PERFORMANCE TEST OF DOE OAK RIDGE TSCA INCINERATOR
- * APRIL MEETING – STUDENT DESIGNS AND AWARDS
- * MAY MEETING – CHEMISTRY FOR ENGINEERS
- * JUDGES NEEDED – SOUTHERN APPALACHIAN SCIENCE AND ENGINEERING FAIR (SAFEF)

KNOXVILLE - OAK RIDGE SECTION

March Meeting Joint w/AWMA

DATE: 3/17/2006
 TIME: 11:30 AM
 LOCATION: SAGEBRUSH STEAKHOUSE & SALOON
 390 SOUTH ILLINOIS AVE
 OAK RIDGE, TENNESSEE

COST: \$10.00

COST INCLUDES CHOICE OF ONE LUNCH ITEM, DRINK, TAX AND GRATUITY.

FOR RESERVATIONS, PLEASE CALL:

LINDA PUCKETT AT 574-6984
[\(PUCKETTLF@ORNL.GOV\)](mailto:PUCKETTLF@ORNL.GOV) OR

BETTY FRAZIER AT 974-2421
[\(BFRAZIER@UTK.EDU\)](mailto:BFRAZIER@UTK.EDU)

BY WEDNESDAY, 3/15/06

THE SECTION WILL SUBSIDIZE UP TO 15 STUDENTS.



SAGEBRUSH MENU

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.

Results of the MACT Comprehensive Performance Test of DOE Oak Ridge TSCA Incinerator

MARK SWIENTONIEWSKI WILL PRESENT THE RESULTS OF THE MACT (MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY) COMPREHENSIVE PERFORMANCE TEST OF THE DOE OAK RIDGE TSCA (TOXIC SUBSTANCES CONTROL ACT) INCINERATOR. THE TSCA INCINERATOR IS DESIGNED AND PERMITTED TO THERMALLY TREAT RADIOACTIVELY CONTAMINATED TSCA (POLYCHLORINATED BIPHENYLS (PCBs)) AND RCRA HAZARDOUS WASTES. THE INCINERATOR CONSISTS OF A ROTARY KILN AND A SECONDARY COMBUSTION

CHAMBER FOLLOWED BY A WET OFF-GAS CLEANING SYSTEM. THE OFF-GAS CLEANING SYSTEM INCLUDES A QUENCH CHAMBER, A VENTURI SCRUBBER, A PACKED BED SCRUBBER, TWO IONIZING WET SCRUBBERS IN SERIES, AN INDUCED DRAFT FAN, AND AN EXHAUST STACK. PRE-TESTING WAS CONDUCTED IN DECEMBER 2004, AND THE CPT WAS CONDUCTED IN MARCH 2005. THE INCINERATOR SYSTEM WAS SAMPLED AND ANALYZED FOR MANY CONSTITUENTS AND THESE RESULTS ARE PRESENTED.

Our Speaker



MR. SWIENTONIEWSKI HAS 27 YEARS OF BROAD-BASED ENVIRONMENTAL ENGINEERING EXPERIENCE, WHICH INCLUDES THE PREVIOUS 12 YEARS EXECUTING PROJECTS WITH BECHTEL JACOBS COMPANY AND BECHTEL NATIONAL INC. HIS EXPERIENCE INCLUDES PROJECT MANAGEMENT, DESIGN, AND OPERATION OF PHYSICAL, CHEMICAL, AND THERMAL

TREATMENT SYSTEMS FOR HAZARDOUS AND MIXED WASTES. MR. SWIENTONIEWSKI RECEIVED A BACHELOR OF SCIENCE DEGREE IN CHEMICAL ENGINEERING FROM VIRGINIA TECH IN 1979.

Calling Area High School Students

AGAIN THIS YEAR, WE WILL BE RECOGNIZING UT CHEMICAL ENGINEERING STUDENTS AT OUR APRIL MEETING. WE WILL ALSO BE INVITING LOCAL AREA HIGH SCHOOL CHEMISTRY TEACHERS AND STUDENTS TO ATTEND THE MEETING.

THE LOCAL SECTION WILL PAY FOR

A HIGH SCHOOL CHEMISTRY TEACHER AND TWO STUDENTS FROM EACH HIGH SCHOOL IN THE LOCAL AREA.

IF YOU KNOW OF SOMEONE WHO WOULD BE INTERESTED IN THIS, PLEASE PROVIDE THEIR NAME(S) TO US SO THAT WE CAN BE SURE TO INVITE THEM.

Advertising in the Newsletter

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 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!



Calling all Judges - SASEF

IN YEARS PAST, THE KNOXVILLE — OAK RIDGE SECTION HAS PROVIDED JUDGES TO THE SOUTHERN APPALACHIAN SCIENCE AND ENGINEERING FAIR (SASEF).

THE LOCAL SECTION WILL BE AWARDING TWO \$50 PRIZES FOR THE TOP JUNIOR AND SENIOR CLASS PROJECTS RELATED TO CHEMISTRY OR ENGINEERING.

WE ARE LOOKING FOR A FEW

TENNESSEE VOLUNTEERS TO PARTICIPATE AS JUDGES ON BEHALF OF THE LOCAL SECTION.

JUDGING OF STUDENT PROJECTS WILL BE HELD ON APRIL 4.

IF YOU ARE INTERESTED, PLEASE SEE THE SASEF WEBSITE- WWW.SASEF.COM OR CONTACT MARK SWIENTONIEWSKI

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WE'RE LOOKING FOR A FEW GOOD JUDGES
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Officers

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KNOXVILLE - OAK RIDGE SECTION



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**KNOXVILLE - OAK
RIDGE SECTION
AICHE**

**P.O. BOX 2008
BLDG. 4500N, ROOM B14
OAK RIDGE, TN 37830-6243**

Calendar

Date	Time	Topic	Speaker	Location
	10:00 AM to			Chemical Engineering Department, University of Tennessee
1-Apr	2:00 PM	UT Open House		
20-Apr	6:00 PM	Student Awards	Design Teams	University Club
			Sandra Dudley,	
19-May	6:00 PM	Chemistry for Engineers	Lipscomb University	Italian Market & Grill

ABOUT OUR ORGANIZATION...

THE GRADE OF FELLOW IS THE MOST PRESTIGIOUS CATEGORY OF AICHE MEMBERSHIP RESERVED FOR THOSE TENURED INSTITUTE MEMBERS WHO HAVE DISPLAYED LOYALTY AND SERVICE TO BOTH THE INSTITUTE AND THE PROFESSION. FELLOWS HAVE ALL THE RIGHTS AND PRIVILEGES OF SENIOR MEMBERS.

SENIOR MEMBERS LOOKING TO BECOME A FELLOW MEMBER:

- MUST BE A CURRENT SENIOR MEMBER
- HELD THE GRADE OF MEMBER OR SENIOR MEMBER FOR 10 YEARS
- HAS BEEN A CHEMICAL ENGINEERING PROFESSIONAL FOR 23-25+ YEARS (DEPENDING ON THE HIGHEST DEGREE EARNED)
- MUST BE SPONSORED BY FIVE AICHE MEMBERS (THESE COULD BE SENIOR MEMBERS OR FELLOWS)

