AIChE®

Volume 20 Issue 1

The NJAIChE Newsletter

New Jersey's Oldest Section

The New Year (2013)

We hope all is well or at least better. The last two years we have had a Halloween blizzard and two hurricanes as well as many days without power. As this is written a minor howling blizzard is going on.

We have the normal meetings planned on the second Tuesday of each month (Snuffies in Scotch Plains) with our executive committee meeting on the first Tuesday at Paisanos at Watchung Square Mall.

As usual we are looking for volunteers to help run the section. Please contact any officer or just show up at Paisanos. The new year may also see more joint meetings with North Jersey. What do you think?

Reservations can be made by phone to 908-604-2670. Our email reservation is unchanged.

Jobs

The section is setting up a list of potential job openings on our web site. Anyone wishing to post should contact any officer or send to Jobs@njaiche.org.

2013 Section Officers

Chairperson:
Todd Salamon

Chair-Elect:
Chandra Nair

Treasurer:
Patricia Forgang

Secretary:
Andrew Soos

Past Chair:
David Greene

Directors:
Phil Messina
Geoffrey D'Netto
Ken Carlson
Jacqueline Sibbles
David Park
Howard Stamato

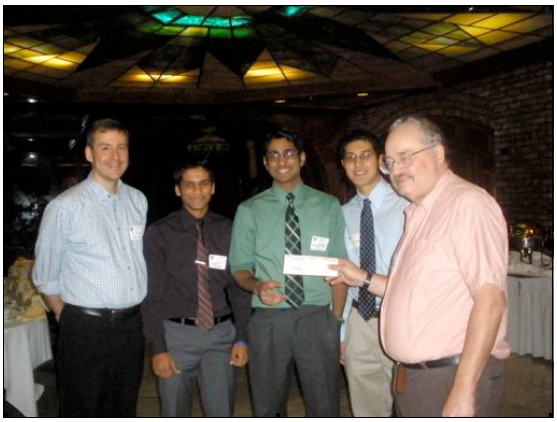
Director Emeritus:
Frank Dittman

XMAS 2013 PARTY

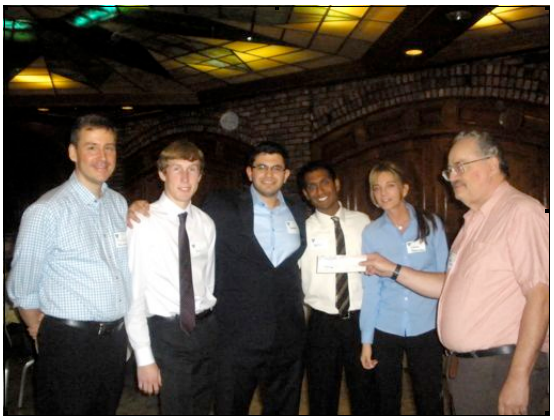
This year we shared Xmas joy with the North Jersey Section at the Hanover Manor. Attendance was 22. A DJ played and there was some dancing.

College Bowl

We only had two colleges: Rutgers and NJIT. But we had enough to make two Rutgers teams: Alpha and Beta. It was hard fought battle playing with revised "Jeopardy" rules. As we entered the final round, it was nip and tuck and anybody's game. Finally NJIT emerged as the victor with Alpha and beta following meekly enough.



NJIT



Rutgers

Rutgers

UPCOMING WEBINARS

Emissions of Mercury and Other Air Toxics: Compliance Strategies for Coal Combustion

AIChE and A&WMA Web Forum
Live Wednesday, January 23, 2013, 1:30pm-3:00pm EST

What do you need to know about mercury, HCI, metals and other toxics control? This webinar will address technical and permitting issues from two perspectives: what is required (by Nick Hutson of USEPA) and what strategies could you adopt (by Bob Fraser of ERM).

Solutions for a Sustainable Tomorrow

Live Wednesday, January 30, 2013, 2:00pm-3:00pm EST

This presentation focuses on the critical components of a truly sustainable operation . . . safety, environment, energy, capital management, and asset productivity.

Strategies for Addressing ABET Safety Curriculum Requirements

Live Wednesday, February 6, 2013, 2:00pm-3:00pm EST
This webinar discusses the background to ABET safety curriculum requirements as well as strategies that departments have used to address them.

UPCOMING CONFERENCES

4th ICBE—International Conference on Biomolecular Engineering

January 13-16, 2013
Hyatt Regency Pier 66, Fort Lauderdale, FL

The meeting will be held January 13-16, 2013 in Fort Lauderdale, Florida. The conference will be co-chaired by Ali Khademhosseini of Harvard University and Kristala Prather of Massachusetts Institute of Technology.

5th Annual Midwest Regional Conference

January 31 - February 1, 2013
Illinois Institute of Technology, Chicago

SBE's 3rd International Conference on Accelerating Biopharmaceutical Development

February 24-27, 2013
Coronado Island Marriott, Coronado Island, CA

JOKES!!!!?

Xmas Cookies: Why Engineers Don't Write Recipe Books for Chocolate Chip Cookies

Ingredients:
1.) 532.35 cm^3 gluten
2.) 4.9 cm^3 NaHCO3
3.) 4.9 cm^3 refined halite
4.) 236.6 cm^3 partially hydrogenated tallow triglyceride
5.) 177.45 cm^3 crystalline C12H22O11
6.) 177.45 cm^3 unrefined C12H22O11
7.) 4.9 cm^3 methyl ether of protocatechuic aldehyde
8.) Two calcium carbonate-encapsulated avian albumen-coated protein
9.) 473.2 cm^3 theobroma cacao
10.) 236.6 cm^3 de-encapsulated legume meats (sieve size #10)

To a 2-L jacketed round reactor vessel (reactor #1) with an overall heat transfer coefficient of about 100 Btu/F-ft2-hr, add ingredients one, two and three with constant agitation. In a second 2-L reactor vessel with a radial flow impeller operating at 100 rpm, add ingredients four, five, six, and seven until the mixture is homogenous. To reactor #2, add ingredient eight, followed by three equal volumes of the homogenous mixture in reactor #1. Additionally, add ingredient nine and ten slowly, with constant agitation. Care must be taken at this point in the reaction to control any temperature rise that may be the result of an exothermic reaction. Using a screw extrude attached to a #4 nodulizer, place the mixture piece-meal on a 316SS sheet (300 x 600 mm). Heat in a 460K oven for a period of time that is in agreement with Frank & Johnston's first order rate expression (see JACOS, 21, 55), or until golden brown. Once the reaction is complete, place the sheet on a 25C heat-transfer table, allowing the product to come to equilibrium.

How can you tell if your child is going to be an engineer?

Watch for these tell-tale warning signs:

-You buy your child an educational software program, and she asks which authoring tool it was written in.
-Your child has torn apart his teddy bear and is studying the chemical composition of the filling.
-She can program you VCR, while you haven't been able to get it to stop blinking "12:00."
-He has removed the voice box from his Talking Elmo doll and reprogrammed it to recite the periodic table.
-She has replaced the arms and legs of her Barbie Doll with bionic limbs.
-He is picked last on every sports team.
-You take her to see Disney's "Hunchback of Notre Dame," and all she's interested in is the computer animation.
-He has Bill Gates posters in his room.
-She believes that if she's really good, Santa will give her a client/server network for Christmas.
-He throws a temper tantrum every time you refuse to take him into Fry's.
-She has accepted a scholarship to MIT. And she's only five.
-He gets in fights in school because he owns a PC and the other kids use a Mac.
-He has defeated the "child-guard" software on your Web browser.
-Forget Dr. Seuss and Beatrix Potter. She wants you to read her Carl Sagan.
-When he is asked to play the Star of Bethlehem in the Christmas pageant, he asks, "Am I a white dwarf or red giant?"