

TIERNAN EXPRESS

NJIT CHAPTER OF AIChE
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

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PRESIDENT'S CORNER

Valentine's day has past and St. Patty's day is right around the corner. Holidays are my most favorite thing in the entire world. Something about them that just brightens my day. Christmas, you get presents, New Year's you get to spend time with those you love, Thanksgiving you get a giant turkey, Valentine's Day more love, and St. Patty's day you get beer. Holiday's are just a good time.

Anyway, we've started off on the right foot I believe. Big turn outs to the meetings and great speakers. So far we can see there are a lot of opportunities available to us through NJIT whether they are co-ops, internships, research projects, or involvement with the community. Some of the speakers from industry have shown us that chemical engineering can be applied anywhere, and we can find a job opportunity that isn't typically chemical engineering. As long as there is a process involved, or an understanding of dynamics, our services are valuable. Then, with Mr. Manfredi, he reinforced the fact that chemical engineering can be used in various aspects of the pharmaceutical and healthcare industries. We learn to think fast, and be efficient and effective in our thinking. We can apply that to everything we do, even outside of work. I would like to send a little thank you to all those who helped preparing for the refreshments, etc., and would like to send a special thank you to the speakers who have done a phenomenal job thus far. Please feel free to give me some feedback

on anything you would like to see change or improve during these meetings. Pizza and soda seems to be working well, but if you would like a different topping or subs instead of pizza let me or one of the officers know. These meetings are for you, and the officers want to make sure that we do the best we can to give you what you need.

We have great speakers coming this month as well. We will be learning about the research happening for the U.S. Army, we will learn about companies like BOC Gases, Engelhard, and Bradley Pharmaceuticals. In terms of volunteering, please come to Tiernan 103 to sign up for various walks for causes, tutoring for children, and Hillside Food Bank volunteers. Also, the Mid Atlantic Regional AIChE meeting is coming up soon, and we need members to help with the Chem-E car. The trips to the regional conferences have always been a good time so please come by and let me know if you are interested. Also, there will be a student research competition, where a student will be giving an oral presentation on the research he or she has done. Finally, if you need anything, again, feel free to contact me: dsr6@njit.edu, and I will see you all at the next meeting.

Dave Recio
President, AIChE
Student Chapter

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TABLE OF CONTENTS

President's Corner.....	1
Cutting Edge Technology.....	2
Upcoming Events.....	3
Job Interview Guidelines.....	4
At the Meetings.....	5
Upcoming Meeting.....	6



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CUTTING EDGE TECHNOLOGY WITH THE ARMY

On February 28, 2005, Zunino presented his prowess in the areas the army is instituting cutting edge technology. Zunino is a Systems Engineer in the Army Corrosion Office located at the Army Research, Development and Engineering Center (ARDEC), Picatinny, NJ. He received his B.S. in Chemical Engineering '02 and Masters of Business Administration '03, both from New Jersey Institute of Technology (NJIT). He is the Technical Lead and Program Integrator for the Smart Coatings™ Material Program as well as the MEMS Reliability Assessment. Alongside with him was Dave Sabanosh who works in the System Safety Office where he evaluates the user/machine interface. He received his B.S. in Mechanical Engineering also from NJIT in Jan '03. The duo gave an overview of what Picatinny does in addition to a video of the Future Combat System that showed where the Army is going. Both focused on 'coating technology', a tool the Army is trying to use with soldiers. In the line of fire, the soldiers would be equipped with armor that captures information such as body temperature, blood pressure, pulse rate and so forth and send it to a main server. In the event that a soldier needs treatment, the medical personnel can just put in their name into a computer and that person's medical history is shown, providing for a cultured

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UPCOMING EVENTS

environment that allows proper and accurate treatment. Another aspect of their speech which most people found stunning was the prospect of having an army vehicle self-heal in the line of fire by applying a coat to itself, hence the name coating technology. All this research was being conducted at NJIT under the name Smart Coatings™. Earlier that week, Mr. Zunino and crew had actually unveiled a prototype in Tiernan B1 and was made open to students who wanted to see it.

David Nare
VP, AIChE, 2004-2005



Picatinny Home of American Firepower

NOTE: The Following is a tentative schedule for the upcoming semester.

February:

- 2/7 - Wine Making
- 2/14 - Pleasant Hill Consultants - What do ChE's do for a living
- 2/21 - Career Paths in Healthcare/ Pharmaceutical Industries
- 2/28 - Picatinny Arsenal Research

March:

- 3/7 - Bradley Pharmaceuticals
- 3/14 - SPRING BREAK
- 3/21 - Engelhard
- 3/28 - BOC Gases

April:

- 4/4 - Anheuser Busch
- 4/11 - Skanska Pharmaceuticals
- 4/18 - Merck and Co.
- 4/25 - Schering-Plough

May:

- 5/2 - Coney Island Day
- 5/9 - Final Exams (GOOD LUCK!)

Tiernan Blurb:

If anyone would like to write for the Tiernan Express please contact Stephanie Monteiro, or visit the AIChE office in Tiernan 103.

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JOB INTERVIEW GUIDELINES

NOTE: I would like to help students with presenting themselves to employers. Every issue will have answers to possible interview questions. These answers are provided to us by *Job Interviews for Dummies* by Joyce Lain Kennedy. If you have any specific job related questions you would like answered, please stop by the Career Development Center and they will help guide you to the direction you want to be.

The Questions (The Job and the Company)
Look at the following questions and the strategies you can use to answer them as you gear up to show harmony between yourself, the job, and the company.

Q: What do you know about the position?

For a ShowStopper

- From your research, discuss how the position fits into the company structure and how you would fit into that position
- Mention how you can help the company along toward its goals.
- Confirm your understanding of the broad responsibilities of the position. Ask if you missed any key points (thereby setting up your qualifications matching for the remainder of the interview).

For a ShowFlopper

- Ask what the company makes.

Q: What do you see as the direction of this company?

For a ShowStopper

- Give a detailed answer, displaying a solid grasp of the company's movement in the industry and adding how you can help.
- Support your answer with facts and figures

For a ShowFlopper

- Make guesses because you don't have a clue
- Offer no data to back up your comments

Q: How will you help our company?

For a ShowStopper

- Summarize how your key skills can help the company toward its goals
- Describe what intangibles you can bring to the company

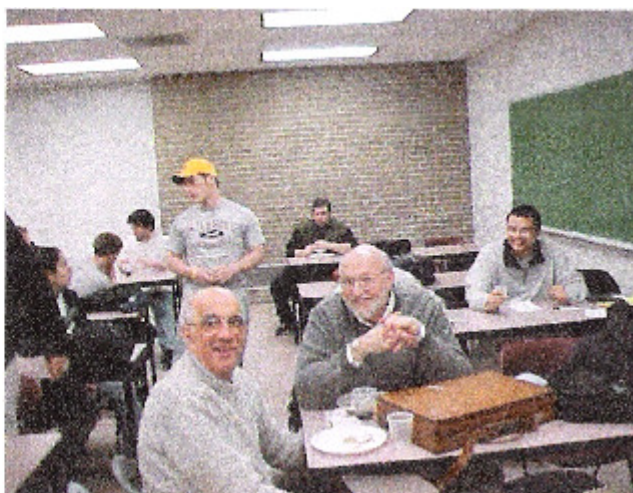
For a ShowFlopper

- Give a short answer with no specifics



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AT THE MEETINGS



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UPCOMING MEETING

Commercialization of New Industrial Process Technology



Monday

Speaker: Mr. Robert Rossi

Date: March 28 2005

Time: 11:30am – 1:00pm

Place: Kupfrian Hall 205

Free Lunch



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