The Filter Press

Chemical Engineering Student Society (ChESS) Newsletter

Winter 1999

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ChESS would like to thank everyone who helped making this Winter Edition, especially, Dr. Feinberg, Kathleen Doddroe, Abdu, Kara, Guoqiang, Mohamed, Rick, Yiqing, and our guest writer Chris Irvin.

Picture of this edition.
strike a pose !!!*

We wish you a Happy New Year !!!
Dr. Fan and Dr. Koelling won Lumley Awards Honor Researchers*

Chemical engineering professor and chair L.-S. Fan pioneered research and development of the first 3-D particle image velocimetry system for instantaneous and simultaneous gas-liquid-solid flow field visualization and quantification for three-phase fluidization systems. Named Distinguished University Professor by OSU in 1996, Fan and his fellow researchers developed the first ultra-fast, high temperature apparatus for accurate measurements of sorbent powder reaction kinetics. This technology, highlighted in Chemical Engineering Progress, and the information it provides is crucial to establish the optimum operating strategy for dry sorbent powder injection technology in coal combustion. In addition, utility companies have shown much interest in dry sorbent injection technology, also developed by Fan, for sulfur dioxide emission control.

Assistant chemical engineering professor Kurt W. Koelling has proven himself to be an outstanding researcher in four areas, including gas-assisted injection molding and thermoplastic composite materials. As a result of his work, the National Science Foundation chose Koelling for its Career Development Award in 1996. Recently, appointed as associate director of the NSF-supported Cooperative Research Center for Advanced Polymer and Composite Engineering, he has also received significant funding from industry and the Petroleum Research Fund. A pioneer in the study of gas bubble dynamics in viscous and viscoelastic fluids, he has helped lead and organize various national and international technical conferences.

* Cited from News in Chemical Engineering, Vol. 70, No. 3, Fall, 1998

The ChE Alumni Society News

The 1st Annual Chem "E" Alumni Society TAILGATE will be on Saturday night, January 23, 1999 for an Ohio State Buckeyes vs. Michigan Wolverines hockey game in the new Jerome Schottenstein Center

The TAILGATE at 6:00 PM is in the OSU Alumni Society Room at the Fawcett Center

Game time is 8:00 PM (Free parking at Fawcett center! - Easy walk to Schottenstein Center)

Students, Faculty, Chem "E" Alums, and friends are invited to join the pregame fun and enjoy the food and refreshments (including BEER). This will be a great opportunity to:

- Socialize with a great group of Chemical Engineers
- See the finest college basketball/hockey facility in the country
- Enjoy a great hockey game between two of the top teams in the nation.

Due to the newsletter getting out later than we had planned, we will accept phone (614-292-7907) and/or e-mail (doddroe.3@osu.edu) orders. You can also pay the night of the game. The Society needs to know that you (and your guests) are coming so we can reserve a ticket for you!

Questions? Call Ron Follmer at 847-1110 or Kathleen Doddroe at 688-3309.
GRIP

The Annual Graduate Research Initiative Program (GRIP) was held on November 12, 1998. This program is to help students improve their presentation style before presenting at the Annual AIChE meeting. Mohamed presented “Multiscale Linear Modeling with Application to Inferential Modeling and System Identification” by Mohamed N. Nounou & Bhavik R. Bakshi. Jianping presented “Numerical Simulation of Gas-Liquid-Solid Fluidized Systems using the Combined CFD-DPM-VOF Method: Single Bubble Rising Behavior” by Jianping Zhang, Yong Li & L.-S. Fan. Yiqing presented “Fluorescence Spectroscopy of Polymer Impregnation using Supercritical Carbon Dioxide” by Yiqing Wang, ChiHae Yang & David L. Tomasko.

Each student was evaluated by a group of students and faculty. Yiqing obtained the highest score and received a prize of $50. We’d like to thank Yiqing, Mohamed, and Jianping for their participation and congratulate them all on their excellent presentations.

New Staff: Kathleen Monegan & Paul Green

On behalf of the Chemical Engineering Students we would like to welcome Kathleen Monegan and Paul Green to the department.

Kathleen will be taking the place of Jeannie as secretary to the graduate chair. Kathleen has been in several positions at OSU since joining the University in 1991, and has most recently served as the Graduate Program Coordinator for the nationally-ranked OSU Department of Dance. Kathleen has a Bachelor of Arts (Cum Laude) from Ohio Wesleyan University and has just recently completed a course in web page design and development. Additionally, she brings with her a wealth of knowledge about OSU admissions, the graduate application process, and successful graduate recruitment and program implementation.

Paul will be working as a new instrument maker. He has been a machinist for about 20 years, mostly making military parts for the government. Paul will be a complement to our department.

Talent Show / Potluck

The talent show/potluck was held on December 15, 1998, and it was a huge success. It was proven that chemical engineers have many other talents besides being able to write mass and energy balances. We would like to thank everyone who participated in the talent show and/or brought food for the potluck.

The talent show consisted of:

- Yiqing and Nan performing a traditional Chinese folk dance
- Zhiqing playing a unique variation of “Jingle bells” on her self-made instruments
- Rick and his amazing yo-yo tricks
- Kara performed a series of yoga movements for relaxation, stretching, and strengthening purposes
- Liyong sang a very popular Chinese song

The fashion part of the talent show consisted of various outfits from China, Korea, and the United States which are worn for various occasions. Yiqing, Denitra, Janine, Xia, Haiying, Ying, and Dr. ChiHae Yang were our models. Denitra Bruer is also an independent beauty consultant who helped all the girls in the fashion show with their makeup. If you have any beauty or makeup questions, Denitra can be reached at bruer@che.eng.ohio-state.edu.
1998 Annual AIChE Meeting

The 1998 Annual AIChE Meeting was held in Miami Beach, Florida on November 15-20. What a place for a meeting! I wonder how many sessions everyone attended with the beach not too far away. For those of us who stayed in Koileit it was very quiet. As you can see from the list below almost all of the Chemical Engineering Professors were out of town at some point during this week.

When the cat's away the mice will play!

Below is a list of papers presented by the department (The list is in alphabetical order according to the professor):

Dr. Bakshi’s group

- Dr. Bakshi was the Chair for the Process and Controller Performance Monitoring and the Computer Integrated Manufacturing in the Chemical Process Industries Sessions.
- “Multiscale Linear Modeling with Application to Inherent Modeling and System Identification” by Bhavik R. Bakshi, Noel Cabigon & Mohamed N. Nounou.
- “Multiscale Statistical Process Monitoring and Diagnosis of Univariate Processes” by Bhavik R. Bakshi & Sermin Top.

Dr. Brodkey’s Group


Dr. Chalmers’ group

- “Rapid Cell Isolation by Magnetic Flow Sorting using Immunomagnetic Lables in the Nanometer Scale” by Lee Moore & Liping Sun, Biomedical Engineering/Cleveland Clinic Foundation, Cleveland, OH; Maciej Zborowski, Biomedical Engineering/Cleveland Clinic Foundation, Cleveland, OH; Jeffrey J. Chalmers.
- “Theoretical and Experimental Measurements of the Distribution of Cell Surface Marker Densities Using Immunomagnetic Colloids (Nanometer Scale)” by Maciej Zborowski, Biomedical Engineering, Cleveland Clinic Foundation, Cleveland, OH; Jeffrey J. Chalmers, Kara McClosey & Yang Zhao.
- “Impact of Media Phase Microstructuring on Intercellular Interactions” by Jeffrey J. Chalmers, Kenneth R. Cox & Patricia Frink.

Dr. Cox’s group

- Dr. Cox was the Chair of the Thermodynamic Properties and Phase Behavior: General Papers Session, the Applying Molecular Simulation & Computational Chemistry Poster Session & the Plenary Session for Educational Initiatives in Computational Chemistry. Dr. Cox also was the Vice Chair for the Plenary Session for Advances in Molecular and Materials Modeling.
- “Heuristic Methods for Computational Chemistry & Molecular Simulation” by Kenneth R. Cox.
- “Impact of Media Phase Microstructuring on Inter cellular Interactions” by Jeffrey J. Chalmers, Kenneth R. Cox & Patricia A. Frink.

Dr. Davis’ group

- Dr. Davis was the Chair of the Intelligent Systems in Process Operations Poster Session.

Dr. Fan’s group

- Dr. Fan was the Chair for the Multiphase Heat and Mass Transfer Session.
- “Bubble Formation in Three Phase Fluidized Beds at High Temperatures and Pressures” by L.-S. Fan, Tso Jen Lin, Geoffrey M. Evans, The University of Newcastle, Callaghan, New South Wales, Australia; Gregory D. Rigby, University of Newcastle, Callaghan, NSW, Australia.
- “Coherent Structures in a Three-dimensional Bubble Column” by D.J. Lee & L.-S. Fan.
- “Dynamic Behavior of Collinear Collision of Elastic Spheres in Viscous Fluids” by Jianping Zhang L.-S. Fan, Chao Zhu, Department of Mechanical Engineering, Newark, NJ, Robert Pfeffer, NJIT, Newark, NJ.
- “Heat Transfer in a High Pressure Slurry Bubble Column” by Xuken Luo, Guoqing Yang, Qunlai Chen & L.-S. Fan.

Miami Beach, FL (photo by Zhiqing)
Dr. Feinberg's Group

- "Recent Results in Optimal Reactor Synthesis via Attainable Region Theory" by Martin Feinberg.

Dr. Koelling's Group

- Dr. Koelling was the Vice Chair for the Polymer Processing and Rheology Session

- "A Method for Assessing the Effect of Sheeting Rheology, Surface Pattern, and Processing Conditions on Glass Lamination" by Yi-Je Juang, Kurt W. Koelling & Li Lee.

- "Gas Assisted Displacement in Capillary Tubes: Influence of Viscoelasticity" by Vishal Gauri & Kurt W. Koelling.

Dr. Lee's Group

- "Low Temperature Free Radical Cross-linking Polymerization-Styrene and Vinyl Ester Copolymerization" by L. James Lee & Xiudong Sun.

- "Heat Transfer and Resin Reaction in Flow through a Fiber Reinforcement" by Hung-Tzu Chiu, Ly James Lee & Boming Yu.

Dr. Ozkan's Group

- Dr. Ozkan was the Chair of the NOx Removal Session and Vice Chair of the Environmental Catalysis I & II Poster Sessions.

- Dr. Ozkan was also the Chairperson for the NOx Reduction Session at the Environmental World Congress in Miami.

- "NOx Reduction with Methane in Presence of H2O & SO2 over Supported Pd Catalysts" by Junko Mitome, Umit S. Ozkan & Gurkan Karakas.

- "Supercritical Fluid Extraction and Temperature Programmed Desorption of Phenol from Activated Carbon" by Raashina Humayan, Gurkan Karakas & Umit Ozkan.

Dr. Rathman's Group

- "Synthesis of Alkylphenyl Ethers in Aqueous Solution by Micellar Phase Transfer Catalysis" by Turgut Battal & James F. Rathman.

- "Synthesis of Mesoporous Silica Thin Films from Metastable Silicate gels" by Janine M. Lawrence, Yoon-Sob Lee & James F. Rathman

Dr. Tomasko's Group

- Dr. Tomasko was the Vice Chair for the Particle Synthesis in Dispersions & Supercritical Fluids Session.

- "PCA Crystallization of Micron Pharmaceutical Particles" by Yung-ho Chou, Peter Larkowski & David L. Tomasko.

- "Fluorescence Microscopy of Polymer Impregnation Using Supercritical Fluids" by David L. Tomasko & Yuqing Wang.

- "Supercritical Fluid Extraction and Temperature Programmed Desorption of Phenol from Activated Carbon" by Raashina Humayan, Gurkan Karakas, Umit Ozkan & David L. Tomasko.

Dr. Yang's Group

- "Enhanced Propionic Acid Fermentation by Immobilized Cells of Propionibacterium acidipropionic: Kinetics and Metabolic Engineering" by Yan Huang & S.T. Yang.


- "Controlled Cell Immobilization/ Adhesion in Fibrous Bed Bioreactor for Selective Cell Retention and Long-Term Culturing" by Melissa Black, Randy Schatzman, Ralph Snodgrass, Progenitor Inc. Menlo Park, CA; Chunmuan Chen, Yu-Liang Huang & S.T. Yang.


Dr. Zakin's Group


Miami Beach, FL (photo by Zhiqin)
I've been asked to say something to ChESS about our department's efforts in recruiting new faculty members. I am Chair of the Faculty Search Committee, so that's supposed to give me a little perspective on what we are doing. In fact, though, I can speak from yet another perspective that might be just as important: Because I am the most recent addition to the faculty, I have what is probably the freshest memory of what the department looks like to a candidate from the outside. And so, while I am now a recruiter, I retain a lot of sensitivity to the viewpoint of recruited. It is this peculiar, dual perspective that will shape what I have to tell you.

First let me write as a recruiter.

What all of us should understand is that we have before us an opportunity that comes along only rarely in the life of any academic department. We began this recruiting season with three positions to fill. (There might be more, but let's suppose there are three.) If we assume that these appointments are at the Assistant Professor level, we face the prospect of three new people teaching and doing research alongside Ohio State students over a 25 year time horizon! For each of these new hires, their teaching and research might, at the national level, range from below average to fabulous. (No department willfully hires people who are below average, but about half of the hires at the national level will turn out to be just that.) With all of this in mind, can there be any doubt that faculty recruiting is the most important thing the department will do this year? Generations of Ohio State students will be affected by what we do now.

Our aim should be nothing less than to make three fabulous hires. We have a chance to move the department forward in a dramatic way, and that chance won't come along again soon.

The problem, of course, is that other chemical engineering departments want to do the same thing. (There are many, many open faculty positions around the country.) So how do we compete? I think we can do this by exercising good judgment and even greater patience, by exploiting the wonderful resources that we have, and by conveying to first rate candidates the excitement of a rapidly rising department – one in which they can play a decisive role. Most important, we need to keep our standards very, very high even if this means carrying faculty recruiting into next year or the year after. We are, after all, interested in excellence over a 25 year time horizon, so short term considerations should count for little.

Now let me talk about the recruiting enterprise for the viewpoint of someone who was recently recruited.

Even after I accepted a position at Ohio State, I don't think I realized fully what great things the department, the university and Columbus have to offer. I expected surprises when I got here, some good and some bad, but, as I've told many people, almost all the surprises have been good! For a large institution, Ohio State is a wonderfully warm and friendly place, and it's one of the very few universities in the United States in which there's a strong feeling of optimism. (All of the new building, both in bricks and in personnel, should tell you something.) Columbus was a real surprise too. I thought it would be nice, but it's turned out to be a really great place to live. Finally, some of the department's resources are amazing. I have especially in mind two assets that are largely invisible but extremely important -- the absolutely remarkable support of its alumni and the incredible spirit of its current students.

The difficulty for us is that the wonderful virtues the department, the university and Columbus aren't readily apparent during a brief visit. I don't remember them being apparent to me, certainly not during my first visit. This, then, is our problem, and it's one that we're trying to address. We're trying to have candidates come in for longer-than-usual, more leisurely visits – visits that we hope will give them a better sense of what's really here.

In my judgment, one of the truly great things about
the department is ChESS, and I really hope that our visiting candidates are touched at least a little by its spirit. With this in mind, we're making it a practice to have ChESS officers (and maybe one or two others) spend some informal off-campus social time with each candidate, usually after the candidate's seminar presentation. This will provide not only a welcome relief from the faculty but also a great chance for the ChESS spirit to come through.

I should also tell you that ChESS opinion about faculty candidates is important to the faculty, and it will be taken into account very seriously. It might happen, however, that we don't make an offer to someone whom ChESS likes very much, or we might make an offer to someone whom ChESS thinks is just OK. In either case, please remember that ChESS hasn't seen the whole picture. There are, for example, confidential letters of recommendation, some from very eminent people, thatprovide incisive information we can't reveal. You can be sure, though, that our ultimate aim is to provide for all our students a caring, distinguished faculty that will enhance their education considerably.

So how are we doing? I am happy to tell you that we

have made our first fabulous appointment!

Just after his visit, we extended an offer to Isamu Kusaka, and he accepted. You'll remember that Dr. Kusaka is one of the great young experts in statistical mechanics (with special emphasis in nucleation phenomena, so critical in the analysis of air pollution problems). His doctoral work was with Professors Seinfeld and Wang at Caltech, and he is currently a postdoctoral associate of Professor David Oxtoby at the University of Chicago. Although it would be inappropriate for me to quote from Dr. Kusaka's reference letters, I can tell you that there is uniform agreement among some very distinguished scientists that he is, without doubt, a rising star. He has a great future, and it will be at Ohio State!

I should also tell you that Dr. Kusaka's decision to come here was greatly influenced by his warm feelings for the department. His time with ChESS was extremely important in shaping that feeling, so thanks!

I hope that, with your help, we will continue to do as well. Go Bucks!

Recipe

Snicker Cheesecake with Cookie Dough

By Janine Lawrence

Ingredients

- 2 packages of cream cheese
- 1 package of chocolate chip cookie dough
- 2 eggs
- 1/2 cup granulated sugar
- 1 teaspoon vanilla
- 4 chopped snicker bars

Directions (prepare time 15 min)

- Preheat oven to 350°
- Mix cream cheese, eggs, sugar, vanilla, & snickers until creamy
- Spread cookie dough in a 9-inch pie pan to form a crust
- Pour mixture over cookie crust and bake for 45 min
- Refrigerate before serving

Note: You can make your own cookie dough from scratch but that will increase the preparation time.

If anyone has any unique recipes they would like to share with everyone, please let me know (lawrence@che.eng.ohio-state.edu) and we will include it in the next edition of the filter press.
Dear Kara,

Are there any other places in Columbus to find entertainment other than at the movies?
- Bored at the movies

Dear Bored,

There really is no excuse to be bored in Columbus. Such a large and diverse city brings with it a huge variety of "things to do and places to go". The question isn't "What should we do?" but rather "What should we do next?" Of course, I couldn't possibly list all of the places to find entertainment, so I will try to give you clues as to where you should look to find out "What is going on in Columbus?"

Newspapers such as "Columbus Dispatch" and "The Other Paper" are great places to start looking for ideas. These newspapers list upcoming and current events in Columbus ranging from square dancing and local music to ballet and theater performances. My personal favorites are the festivals that are held down by the Riverfront in the summertime. "The Lantern" is another great resource. Ohio State offers its own dance, music, and theatre performances (many of which are free or cost just a few dollars) as well as athletic events. (If you haven't heard Ohio State football is really big, you need to remember to get your tickets in April.)

The first question to ask is "what are you interested in?" Looking at Art? Making Art? Watching Sports? Playing Sports? Watching Dance? Dancing? Listening to Music? Writing Poetry? Listening to Poetry? Reading Poetry? Going to Parties? Shopping? Eating? Hiking? Bird watching? Berry Picking? I think you get the point. If you like artwork, the Columbus Museum of Art is a great place to start. Columbus also has many art galleries, including Ohio State's own Wexner Center. The shops and galleries in the Short North are particularly fun on the first Saturday of every month when they stay open into the evening. Columbus also has a great restaurant scene. If you can't stand the completely unoriginal and poor quality food at the ever popular chain restaurants. "The Other Paper" gives a very nice listing of some of the better ones that we have in Columbus.

As for other forms of entertainment, look around, listen to what others talk about, and ask questions. A lot can be communicated by word-of-mouth.

P.S. "The Other Paper" is a free newspaper. It can be easily found as you walk in the front door of many local bookstores and restaurants.

Letters to Dear Kara may be submitted directly to Kara's mailbox or to any CHESS member. Please choose any issue that you need advice on. Confidentiality will always be maintained and it is suggested that you don't sign your real name.

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My Spare Time

There's No Place Like Home

by Christine M. Irvin

When you're looking for a good place to spend a quiet day away from home, you probably think you need to go further than your own back yard. But, a great place to go is as near as The Ohio State University campus. The campus offers so much more than just classrooms and laboratories.

Architectural buffs will enjoy the variety of architectural styles on campus. One such example is Hayes Hall, home of the School of Fine Arts. It is believed to be the oldest major building remaining on campus. The building was named for President Rutherford B. Hayes. Hayes Hall's most notable feature is the round entry arch. It is called the "whispering arch" because words spoken, even whispered, at one side of the arch can be heard clearly 20 feet away on the other side of the arch.

University Hall looks old-fashioned, but the building itself is only 35 years old. That's because the original University Hall was demolished and a replica built to replace it. The replica contains the original archway and pillars, and the window shapes are different on each floor, as they were in the original building. Geology enthusiasts, as well as architectural buffs, will appreciate the unique structure of Orton Hall, named for Edward Orton, the university's first president and professor of geology. Forty different types of Ohio stone were used to construct the building. The outside facades are layered with five stone varieties positioned in the order they occur naturally in Ohio's geological strata. There is an amazing age difference of nearly 65 million years between the base layer of rock, Mississippian sandstone, and the top, Silurian limestone. Twenty-four pillars surround the chime tower, and each pillar is made of a different stone.

Both architectural and arts enthusiasts will want to explore the Wexner Center for the Arts, 1871 N. High Street. The center, built in 1989, was designed by the Columbus-based architectural firm of Trott & Bean in conjunction with a New York company, Eisenman/Robertson Architects. The building itself is an "object d'art." The design received international acclaim even before the structure was built. The center was named for Leslie H. Wexner, founder of The Limited, Inc., who donated $25 million to the university for the arts center. The building sits on the site of the former Armory, and like University Hall, it incorporates part of the old structure in the new. The Armory's original tower portion was included in the new building to complement the entrance to the university.

The Wexner Center for the Arts holds shows and exhibits featuring artists of many disciplines. It regularly features both regional and national artists, singers, dancers and musicians. Call 292-3535 for more information about upcoming shows and exhibits.

Nature lovers will appreciate the beauty and serenity of Mirror Lake. Located south of The Oval and the Main Library, Mirror Lake offers a peaceful, scenic place for an afternoon stroll or a picnic. The lake has often been the site of weddings, commencement activities and various parties. Mirror Lake was constructed at the mouth of a spring on the Neil farm. The Neil farm was purchased for the beginning campus of The Ohio State University.

The next time you're looking for a quiet place to spend the day, remember, you don't have to look any further than your own back yard. Because, there's no place like home.
Abdu's Movie Review

The Faculty

By Abdu Bunch

What is this movie about?

This movie is about a group of high school students that suspects that one by one their teachers are being controlled by an alien and they feel that if they do not do something to stop it that soon the whole town will be controlled by this alien being. The students try to get help from the police and from their parents but no adults will believe them so even though they do not really like or trust each other the students work together to try and destroy the alien.

Did you enjoy this movie?

When I went to see this movie I was almost certain that I would not enjoy it. The preview did not look that good and the plot seemed simple and kind of stupid, but I actually liked it a lot. This movie is very clever, funny, and scary. The person who wrote it also wrote the Scream movies. Those movies had clever scripts and it was difficult for the audience to determine who was the killer. In this movie the students realize that they do not have to kill all of the aliens just the original one but they are not certain about which human was taken over by this alien and it is difficult for the audience to determine this also. This movie is a cross between Invasion of the Body Snatchers and Scream. Even though none of the actors who played the high school students is well known, they all gave very good performances and had well defined roles that all young kids can relate to. There is the popular star quarterback of the football team, the stuck-up high school cheerleader/beauty queen, the introverted outcast who does not like anybody, the shy and friendly new girl who just wants to make friends, the guy who gets bad grades not because he is stupid but because school is boring for him so spends his time making and selling drugs but he ends up doing better on the A.C.T. and S.A.T. then the students who make the best grades, and last but not least the little nerdy guy who gets picked on by everyone.

Are there any well known actors in this movie?

There are no big name star actors in this movie, but some of the actors who played the teachers are fairly well known. Salma Hayek plays the school nurse, Jon Stewart plays the biology teacher, Robert Patrick who played the bad guy in Terminator 2 plays the football coach, and Bebe Neuwirth who played Frasier’s emotionless wife on Cheers plays the school principal.

What type of movie watcher will enjoy this movie?

If you liked the Scream movies then you will like this movie. It is as good as those movies and much better than those “I know what you did last summer movies” and that stupid Urban Legends movie.

Out of 4 stars what rating do you give this movie?

I give this movie 3 out of 4 stars.
Sure! Right next to the overhead, which is by the chain, under the fan, over the temperature controller, by the...

If you have any ideas or suggestions, please write to Rick (watson@che.eng.ohio-state.edu).

Just Kidding, Chris

Chris, you got any fuses?

Go in and see. Good luck!

You think Chris has fuses?


Photo Album

From Miami ...

Dr. Deniz from Middle East Technical Univ. & Dr. Zakin

Dr. Shih-Shen Pan (left) from Merck, Prof. Esin Guleri (chair of Wayne State Univ.), & Dr. Fan

Surita Bhatia (PhD student from Princeton) & Dr. Feinberg

Dr. Maria Papadaki (post-doc at MIT), Dr. Chalmers & Dr. Feinberg

Dr. Fan with Prof. Sotiris Pratsinios (left) & Prof. Lothar Reh from Swiss Federal Inst. of Tech. - Zurich (ETH)
Why go to Paris, come to Koffolt ...
and we're also chemical engineers ...