

Industrial Blueprint

-The IOE Student Newsletter-

Volume 17, Issue No. 3

A joint venture from APM and IIE

April 19, 2004

Undergraduate Walk-In Counseling Hours

Professor Yili Liu (Program Advisor):

Wednesdays 1:30pm – 3:00pm & by appointment
In G622 IOE
e-mail: yilliu@umich.edu

Ken Agacinski (IOE/EGL Peer Counselor):

Wednesdays 1:30pm – 5:00pm
Thursdays 10:30am – 2:30pm
Fridays 9:00am – 10:30am
e-mail: kagacins@umich.edu

Pinar Yaprak (IOE Peer Counselor):

Mondays 12:30pm – 5:00pm
Tuesdays/ Thursdays 4:30pm – 5:00pm
Wednesdays 12:30pm – 1:30pm
Fridays 10:30pm – 11:30pm
e-mail: pyaprak@umich.edu

Amit Shah (IOE Peer Counselor):

Mondays 10:30am – 12:00pm
Tuesdays 12:00pm – 3:00pm
Thursdays 2:30pm – 3:00pm
Fridays 11:30am – 2:30pm
e-mail: amitrsh@umich.edu

Pam Linderman (IOE Student Advisor):

In 1603 IOE
e-mail: plinder@umich.edu

A Few Words From the Editor . . .

Salutations fellow IOE's,

With April sunshine entering our lives, classes winding down, and examinations approaching, I think that we all start to realize our collegiate mortality a little more than usual. Our years here are not as long as we think (except PhD students, you're here for-fucking-ever), and with the passing of each term the door of opportunities here at the University of Michigan closes a little more. Everyone has a special way of dealing with the pain. Michigan Daily columnists write sob stories about sorority memories and Dance Marathons that time forgot. Mary Sue Coleman hires a speaker that no one has heard of for the University commencement ceremony. Picnics and time capsules honor the hard work we students put in to our educations, and the way it will change our lives forever. However, the MOST IMPORTANT THING is that we all fill out our teacher evaluation forms in full.

That's right, nothing sums up a semester at the University of Michigan than a manila packet full of half-assed evaluation forms from the half of the class that showed up the day the forms were passed out. Also known as "Bring a #2 pencil day" or "Leave class 20 minutes early day," teacher evaluation day is a time when the joy, hardship, or hell experienced for 14 weeks in a given class is quantified as a "4" or a "3". Most of us apathetically fill in 3s, 4s, and 5s in a random order much like we apathetically attended the class. But it isn't our entire fault. Whoever designed this questionnaire wrote too many vague, repetitive questions that are frankly boring to answer: "I learned a good deal of factual material..." "I gained a good understanding of concepts..." "I developed a greater awareness..." and so on. There are 30 questions exactly like these. I swear that on my NERS 211 Discussion Section evaluation question 9 says "I participated actively in class discussion," while question 17 says "I actively participated in class discussions." What the hell? I put *Strongly Disagree* for one and *Strongly Agree* for the other just to see if it could throw off the damn machine.

But no one will get fired as long as your Prof/GSI averages at least a 3, which never happens because the 13 guys sitting in front of you looking at the clock just drew a line of straight 5s. So how is your voice heard? The free response. I know that it's hard, and I know that it can take up to and including 4 minutes, but it is something that we need to do. Don't just say "Great Job Teaching" or "Go to Hell", you have to elaborate and make tangible suggestions. Most Profs, especially those thoughtful IOE ones, will not only read your written comments; they will also act on them. It may not help you, but it will help a lot of people in the future, including your Prof. So stop being selfish, cynical, and sober. Fill out your evaluations, crack open a Sharps, and bask in the warm glow of my birthday, today, April 19.

Cheers,
Ryan Rindler

UPCOMING EVENTS

April 19	Ryan's Birthday
April 21	Springfest!
April 23	Exams Begin
May 1	College of Engineering Commencement

Visit the IOE Department Website:
<http://www.ioe.engin.umich.edu/ugrad.html>

Focus on a Fake Student Society: **Bayside High School Student Council**

By Lisa Turtle

I know that the school year is almost over, but it's never too late to get involved with our student council. We have had a really productive year so far, and I know that the Seniors want to go out with a bang. If you love planning date auctions, shooting anti-drug commercials with movie stars, bootlegging spaghetti sauce in stolen chemistry beakers, or getting locked in the boiler room with Jessie and Slater on the night of the Wild West themed Senior Prom, then this is the place for you.

I know that it seems like a lot of our projects get a roaring start then seem to disappear like it never existed. Like when we took the school store back from the nerds and then never used it again. Or when we found that old abandoned (and controversial) school radio station and then it disappeared too. Then there was that other time when Kelly and Jessie just disappeared for awhile.

I think that we must stay focused this upcoming year. We cannot just go off on a tangent every time Slater's girlfriend comes back from Germany, or Mr. Belding's wife gives birth in an elevator, or Jessie gets addicted to caffeine pills, or the school discovers it is sitting on an oil well, or Screech enters a beauty contest, or they change the school song, or Zack finds \$5,000 at the mall. Right now, we need to put all of our efforts into the important issues. For example, for the past 10 years, every single class that has occurred at Bayside High has been held in that classroom across the hall from Mr. Belding's office. English, Economics, U.S. History, Driver's Ed, Chemistry, Quiz Bowl practice, Detention, Choir practice, Marketing, student council meetings, anti-drug commercial shoots, Home Economics, Band, river-rafting rendezvous point, the list goes on. Let's build Bayside another classroom. See you this summer at the Malibu Sands! Go Tigers!

If you are interested in joining the council, they have meetings after school in that classroom where everything happens, or contact Lisa Turtle at lturtle@umich.edu. Bayside Student Council is a proud member of the OPP.



The MAX!

WINTER 1992

Bayside Student Council OFFICERS

President	Jessie Spano
Secretary	"Screech" Samuel Powers
Cheerleader	Kelly Kapowski
Security	A.C. Slater
Publicity	Zack Morris
Spinster	Lisa Turtle
Faculty Advisor	Richard Belding

*Get
Connected...*

**With
IOE!!!**



Human Factors and Ergonomics Society

<http://www.engin.umich.edu/soc/hfes>

Institute of Industrial Engineers (IIE)

<http://www.engin.umich.edu/soc/iie>

Outstanding Multicultural Industrial Engineers (OMIE)

<http://www.engin.umich.edu/soc/omie/>

Alpha Pi Mu (APM)

<http://www.engin.umich.edu/soc/apm>

Institute for Operations Research & the Management Sciences

<http://www.engin.umich.edu/soc/informs>

Engineering Global Leadership Honor Society

<http://www.engin.umich.edu/students/support/egl/>

SENIOR SPOTLIGHT

By Bethany Quist

Name and Age: Will Uhl, 22
Hometown: East Grand Rapids, MI

Plans after graduation: Working for GKN in their International Leadership Development Program

Most memorable experience: Storming the field after defeating Ohio State with a U painted on my chest (part of GO BLUE).

Best learning experience: In IOE 316 we had a quiz every Friday. It forced me to learn the material every Thursday night. I did my best work in that class.

Funniest moment: Playing flip-cup in IOE 422 with Mashid (GSI) on my team against Ken (Instructor). We won, of course.

Advice for underclassmen: Go to office hours, it will make your life so much easier.

Favorite IOE class: IOE 316, I thought the material was really intriguing, and Ufuk (the Instructor) was really involved with all the students.

Least favorite IOE class: IOE 373, the semester project was killer, plus I hate programming!

Work/Internship experience: Benteler Automotive, Industrial Engineer Intern

Favorite bar in Ann Arbor:

1-2 beers: Ashley's,

3-6 beers: Skeepers

Where do you see yourself in 20 years: Happily married with a few kids in a well-established career (bland, eh?)

Favorite music to listen to: Phish or pretty much anything with a good beat

Favorite restaurant/food in Ann Arbor: Gratz

Biggest pet peeve: Cell phones going off in class

Favorite TV channel: Spike TV, solely because of Most



Name and Age: Vanessa Denise Byrwa, 21
Hometown: Novi, MI

Plans after graduation: Teaching blind children how to fish on the banks of the Nile...No, just kidding, I'm in the interviewing process

Most memorable experience: There are too many...the best times are the in-between times

Best learning experience: Learning? Is that what I came to college for?

Advice for underclassmen: P P P P P P...Proper Prior Planning Prevents Piss-Poor Performance

Work/Internship experience: Nothing as exciting as the 481 Hospital Experience!

Favorite bar in Ann Arbor: It depends on what the night of the week. It's not the bar; it's who's there!

Favorite IOE class: I am an Ergonerd, so probably IOE 432 because you get to play with all those gadgets! I also liked IOE 481 because it makes sense of the last 3.5 years

Least favorite IOE class: IOE 316 is God awful, but required.

Where do you see yourself in 20 years: Santa Monica, California... Living the good life

Favorite music to listen to: At the bar, "Yeah" (Usher), "Toxic" (Britney), "Topsy", "Rubberband Man". While studying, Our Lady Peace, Matchbox 20, or Dashboard Confessionals.

Biggest pet peeve: The kid that raises his hand 25 times during lecture. Let it go dude, Office hours!!



MSA QUIZ CORNER: MIXUP MATCH'EM

- connect the picture to its correct name,
answers next fall -



A. Clam Diggers

B. Shants

C. Calypso Pants

D. Capris

E. Pedal Pushers

F. Flood Pants

Answer to last month...

No Money ≠ Money

- True
- False

MAY 2004 IOE GRADUATES

These fellow students will be graduating at the end of this month to enter the real world or to further their education. The Blueprint Staff congratulates these students and wishes them well in these pursuits.

(undergraduate education graduates in all caps; graduate education graduates in title case)

ABRAMS, TIFFANI
ADIWIBOWO, IMAN
AGACINSKI, KENNETH
BAPNA, VINITA
BARNES, MARK
BASCH, KATHRYN
BELSKY, BRADLEY
BERMAN, MARC
BIGLIN, MATTHEW
BISARO, JYOTSNA
BRABBS, PHILIP
BRIDGES, JEREISHA
BRILLHART, STEVEN
BRINKMAN, TROY
BROOKS, DANIEL
BURGGRAAF, DAVID
BYRWA, VANESSA
CABANERO, ANTHONY
CARMONA, ORLANDO
CHAN, ERIC
CHANG, HOWARD
CHAPMAN, LISA
CHAPPELL, CATHERINE
CHIN, VERONICA
CHUA, RUXI
COHEN, YANIV
COVERT, JULIA
DARMONO, HANS
DENNER, JAMES
DERONGHE, ERIN
DEYER, RYAN
DOBIES, LAUREN
DRENNEN, ZACHARY
EDWARDS, KIMIKA
ELIZALDE MARTINEZ,
FERNANDO
FELDKAMP, THOMAS
FERGUSON, HUGH
FONG, YUNHO
FOO, HSIN YUEK
FRANKLAND, CRAIG
GARBACIK, MICHAEL
GLASPIE, SHANNON

GONZALEZ, FERNANDO
GREZLIK, MICHAEL
GRISHAM, JOSHUA
GRUDE, AMY
GUZMAN ORTIZ, JAVIER
HALFMANN, ANNE
HARDAWAY, DANIEL
HARIK, RAMZI
HAWKINS, BRENT
HOFFMAN, STEPHEN
HUANG, ELISA
HUGHES, ANTRON
KAPADIA, RINKU
KELLOGG, CHRISTOPHER
KRAKAUER, MARJORIE
KWIAKOWSKI, JILLIAN
LACCAY, CHRISTINE
LAESCH, THOMAS
LAWLESS, CHRISTOPHER
LAING, PETER
LE, JUSTIN
LEHMAN, MATTHEW
LEUNG, SINMAN
LIM, TRINA
LOESEL, CARLIE
LOGOZZO, WILLIAM
LU, JENNIFER
MACKEN, REAS
MARIN, ROGER
MCGRAIL, MATTHEW
METZGER, ELISE
MOKIENKO, KATHRYN
MONTEMAYOR ELIZONDO,
LEO
MURPHY, JILLIAN
MUTLU, DILBER
NATHANY, SHILPA
NEIDUS, JOSHUA
NIKITAIDES, LAMBROS
PAWLAK, JEFFREY
PIONTEK, ANNE
RANGNANI, MILI
RICH, PATRICK

RISLEY, DAVID
RIVERA, RICHARD
RODRIGUEZ, OCTAVIO
ROMERO III, JOSE
RZASA, KIRK
SAIFULLAH, SYED
SALAS, LUIS
SCATAMACCHIA, JOHN
SCHULTZ, ABBIE
SEHGAL, PRIYA
SHAH, RESHMA
SHAH, SAUMIL
SHARMA, BHARAT
SHIKARI, SARAH
SISIKOGLU, ESRA
SNYDERS, GREGORY
SOH, XIAOQING
SOTO, NICHOLAS
STAJNINGER, DAVID
STOIANOWSKI, RYAN
SUAREZ, STEPHEN
SUTTER, GWENDOLYN
TATORIS, REID
TAUB, BRENT
TENKLEY, NARI
THEKDI, SHITAL
UHL, WILLIAM
VANDERHYDE, MATTHEW
VON BEHREN, JAMIE
WALTER, ELLIOTT
WHITE, HEATHER
YAPRAK, PINAR
YOUNG, BRIAN
Jain, Gaurav
Kuo, Chia-Wei
Rinaz, Sofiane
Schkade, Lisa Susan
Wagner, David William
Assouad, Pierre Elias
Broggio, Julian Jorge
Burhans, Charles Gordon
Chen, Bruce
Cheng, Chuan Yao

Davey, Melinda Elizabeth
Effendi, Cherry
Forster, Brian John
Guan, Kevin KaiCheng
Kasey, Christian Gary
Keyes, Sanyika L
Kneale, Michael David
Kofman, Leonard
Kuo, Hsiu-yang
Le Corvec, Claire Genevieve
Lee, Jen-Chieh
Lichtman, Johanna Quinlan
Miller, Jodi Lynn
Mizuno, Hiroyuki
Norton, John
Ostreicher, David Joseph
Palaniappan, Palaniappan Muthu
Patel, Jigar Rameshbhai
Pirzadeh, Mahshid
Prohaska, Michael Paul
Rasmussen, Travis J
Ravi, Niranjana
Ro, Ronald B
Root, Sarah Elizabeth
Sanusi, Andrew
Shah, Neil Vinay
Shah, Sapan Jyotindra
Sir, Mustafa Yasar
Smith, Daniel Todd
Syrjanen, Erik Davis
Tam, Shun Chi
Tang, Li
Theissen, Kacie
Trevino, Becky
Turnbull, Sandra Mae
Tyagi, Dalip
Verdugo, Jay Joseph
Wagner, David
Wu, Changxu
Ye, Nan
Zylstra, Brad A
Baumert, Steve



PREMED CORNER:

with Jason Waldinger
B.S. Cellular & Molecular Biology '06
University of Michigan College of LS&A

I would like to extend a welcome to the four of you reading this article in which I will review a book entitled Einstein's Dreams. Now before I go any further I must warn you that these dreams are not about neutrinos or kinematics or other normal pre-med topics but they are entirely about the theory of time, a theory that argues against ideas such as "optimization" of one's life. I know it will be difficult for IOE students to imagine a world without optimization but just try for the duration of this review.

Einstein's Dreams presents a fantasy world that forces the reader to consider the nature of time such that he or she doubts their mastery of the subject. One vignette presents a view of time as something circular an idea that is not new, but is surprising when

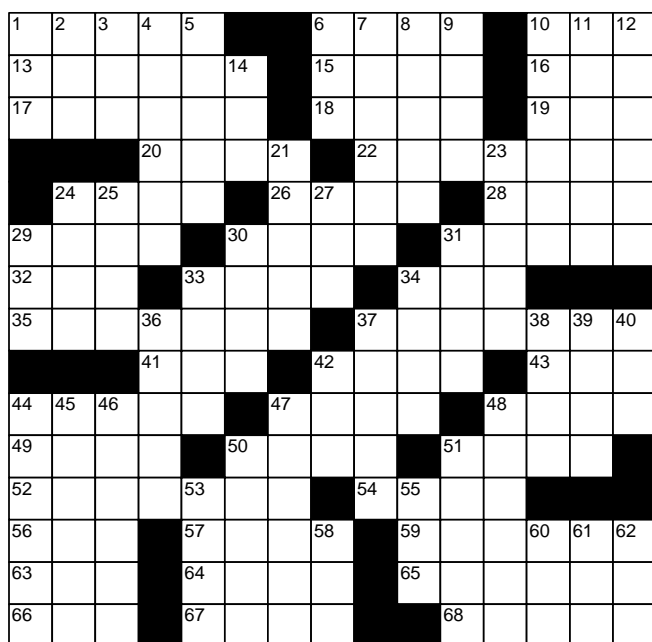
presented as actual people living their lives and experiencing the same events over and over. The novel's format has a lot to do with the effects it produces. The characters were all nameless except for two, and the characters were always playing out seemingly mundane acts that all of a sudden took on profound meaning. Depending on which nature of time you immerse yourself in, a kiss between two lovers, or the pursuit of education or a higher truth, memories all take on completely different contexts.

Unfortunately that is all I have space for in this issue's pre-med corner and there is a six-pack of O'Douls that is calling my name. So I hope everyone can optimize their fun over the summer and make sure to ponder the important questions of life posed by this book. I leave you with this little-known remark by Abraham Lincoln:

"One must yawn abundantly and shave infrequently to lead a fulfilling life."

IOE CROSSWORD

- Grad Students: I promise that this one is solvable -



www.CrosswordWeaver.com

Across

- | | |
|------------------------------|----------------------------------|
| 1 Islands | 41 Elementary school group |
| 6 Association (abbr.) | 42 IOE 310 programming language |
| 10 Pub | 43 Dawn of a new ____ |
| 13 Medicine cabinet need | 44 Bird or Seiford ____ |
| 15 Earl | 47 Mr. Holland's ____ |
| 16 Street type abbr. | 48 The only way to study for 373 |
| 17 Eye covering | 49 ____ es para beber |
| 18 Vexation | 50 Skins |
| 19 "Nobody likes ____" | 51 Garner |
| 20 Negative (prefix) | 52 Easter colors |
| 22 Lower (as in an airplane) | 54 "ELAN" |
| 24 Leave out | 56 Pacific Standard Time |
| 26 Russian Leader? | 57 Reduce |
| 28 Recommend | 59 Medicine from a plant |
| 29 Blacken | 63 <i>Almost</i> South East |
| 30 Fence opening | 64 Brand of sandwich cookie |
| 31 Diag handout | 65 Blast (2 wds.) |
| 32 Lubricate | 66 Accomplished |
| 33 Tranquil | 67 Our Departmental Neighbor |
| 34 Shack | 68 Disagreeable weather |
| 35 Loudly | |
| 37 Blimp | |

Down

- | |
|---|
| 1 Blueprint Editor Society |
| 2 Engage in espionage |
| 3 Old UM President Bollinger |
| 4 Custard filled pastry |
| 5 Holy person |
| 6 Advertisements |
| 7 Chocolate topped treat |
| 8 Snow slider |
| 9 New Jersey Bball team |
| 10 Bread factory |
| 11 Punish |
| 12 Make a 3D drawing |
| 14 Central daylight time |
| 21 Rome's country |
| 23 Simpson's "Unitarians" |
| 24 2002 Football National Champions: ____ State |
| 25 African nation |
| 27 Short-term memory (abbr.) |
| 29 ____-Artist (charlatan) |
| 30 Ball, Cotillion, e.g. |
| 31 Unfold |
| 33 "Second ____" Comedy Troupe |
| 34 What legs are attached to |
| 36 Jack ____, could eat no fat |
| 37 Entertain |
| 38 Frau's husband |
| 39 Iraq's neighbor |
| 40 ____ Linderman |
| 42 Yearly interest percentage (abbr.) |
| 44 Drank like a dog |
| 45 Tennis player Andre |
| 46 Corroded |
| 47 "OUSTER" |
| 48 'Is unable to' |
| 50 Emergency road flame |
| 51 Dukes |
| 53 Black |
| 55 Scientist's office |
| 58 Goddess |
| 60 The other half of '-Jima' |
| 61 a curt 'curt' |
| 62 Blueprint Editor Society |

fame
201
Jokes -

Where did all the honeydews and cantaloupes go for summer vacation?

to John Cougar Melon-Camp!

To the optimist, the glass is half full. To the pessimist, the glass is half empty. To the industrial engineer, the glass is twice as big as it needs to be.

Did you know that our city was named by a cold pirate?

That's why it's called "Ann Arrrrgh-brrrr"

Ask Cowboy Yao

*A monthly column where you can ask Cowboy Yao anything and everything**

Dear Cowboy Yao,
Are you Ryan Rindler? Why are you writing under the pseudonym of 'Cowboy Yao'?
-a Ryan Rindler fan

Yao>
Though Ryan has been having trouble getting article contributions, he hasn't stooped to writing multiple articles under different names. And frankly, I'm offended that you would confuse our articles. Besides, the handle "Cowboy Yao" is infinitely cooler than "Ryan Rindler".

Dear Cowboy Yao,
What classes should I take for my non-IOE Engineering core?
-confused about classes

Yao>
Actually, this wasn't a real question, but I figured that it comes up so often, I might as well answer it. Take MSE 220 and NERS 211. Both are supremely easy. The third one is up to you. Invariably, the next question is always: "What 400-level IOE classes should I take?" Well, 422 is a lot of fun, and 474 will almost certainly be useful in your career. I also feel that every IOE should also take 425. Just so you know what the hell everyone is talking about when they start throwing around Japanese words they don't really understand.



Dear Cowboy Yao,
I'm looking to join a student society to pad my resume. What would you suggest that I join?
-looking for an internship

Yao>
If you are looking for good food, Alpha Pi Mu (APM) is known as putting out some of the best spreads for a student society. Or, you could opt for the more difficult to get into, Engineering Global Leadership (EGL) program. Then again, I have heard current members complain that with each incoming class, the number of members increases and the society is losing its exclusivity. However, if it is exclusivity you seek; look no further than Institute of Industrial Engineers (IIE), as they had a mere four non-officers at their last elections meeting. Be sure to wow those recruiters by holding an officer position, preferably one that sounds impressive but requires little actual work, such as Webmaster or Blueprint Editor.

Dear Cowboy Yao,
Can I submit a senior spotlight to the Industrial Blueprint?
-APM initiate

Yao>
Sure, we'd be happy to print it. Please send in as many as possible to Ryan (rrindler) or Reid (rtatoris). They will thank you greatly.

Email your questions for Cowboy Yao to:
cowboy.yao@umich.edu

**Monthly just like the Industrial Blueprint is monthly. Except for when the APM officer loses the Blueprint template and stops production for four months.*

Have a safe and fun Exam Week!

Blueprint Editors-In-Chief:

Reid Tatoris (rtatoris@umich.edu)
Ryan Rindler (rrindler@umich.edu)

Thanks To the Following Contributors:

Bethany Quist, Yao Cheng, Pam Linderman, Celia Eidex,
Lisa Turtle, Brad Belsky, Jason Waldinger

***NOTE:** The opinions expressed herein do not necessarily reflect those of the Industrial and Operations Engineering Department at the University of Michigan – Ann Arbor. Any questions or comments should be submitted to rtatoris@umich.edu or rrindler@umich.edu.*

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