Diffraction Enhance Imaging:

Technology of the future

Dean Chapman, Associate Professor of Physics

Screening Mammography has proven to be an effective procedure for the detection of breast cancer. Work with human breast cancer specimens suggests that DEI images include information regarding specific physical characteristics of the lesion and associated features that are not detected by conventional imaging. This work involves researchers from Illinois Tech, the University of North Carolina, North Carolina State University, and Brookhaven National Laboratory.

Dr. Chapman has been doing his research at Illinois Tech for the past six years. Before that he worked as a Scientist at Brookhaven National Laboratory.

There is his topic of research was Synchrotron Radiation. He has also written many papers on X-ray imaging, Bent crystal optics and Dual Energy Subtraction Imaging. The US News and World Report cited him in an article about new technology that would provide more effective airport screening.

Date Rape, Drugs, & Alcohol

As a part of Sexual Awareness week, Jeff Driskill held an information session at Parr Hall on Tuesday February 5th on Date Rape, Drugs and Alcohol. Driskill has 14 years of experience in public safety.

Driskill began by stating some astonishing facts. He informed that a rape happens in America once every five minutes and one in every four women in America is victim of rape or attempted rape. According to statistics, as told by Mr. Jeff, 57% of rapes occurred on dates and freshman college students are most likely to become rape victims.

Mr. Driskill informed the audience about "Date Rape" drugs. The most common drug used today is rohypno (flunitrazepam). Its street names include rophies, rophies, la rocha, rophies, mind eraser, rophy pill, etc. These drugs are usually smuggled from Mexico and produce a strong sedative effect, muscle relaxation and slowing of psychomotor responses. Sedation occurs 20-30 minutes after administration and lasts for several hours.

The most alarming side effect of this drug is that the person has no memory of what happened while he or she was intoxicated with the drug, after he regains his consciousness. Rohypno is also used for robbery and theft.

The audience was also informed about the various preventive measures that should be considered in daily life to avoid dangerous situations. Driskill advised the listeners to be cautious and keep an eye on drinks while in a bar. He said that girls should be aware of non-verbal messages that they may be giving through clothing, postures, gestures and tone of voice. He also advised to go on group or double dates and to avoid secluded places, which puts one in more vulnerable position.

Illinois Tech's code of conduct includes a policy about sexual assault. It can be found in student handbook (p. 88). Here is the list of on campus resources regarding sexual assault on campus:

Counseling Center 312-808-7132
Health Service 312-808-7100
Campus Ministry 312-567-3160
Public Safety, 24 Hrs. 312-808-6363
Faculty Profile:  

Allen Wolach

Dr. Allen Wolach, Professor & Undergraduate Advisor in the Psychology Department, has written computer programs which help to enter references in APA form in articles for journals. Another of his program helps generate schedules of reinforcement. In using it, one can experiment with humans as subjects and get a cumulative report by means of a printout of the person's performance. This is done using a conventional printer instead of expensive devices like cumulative recorders. Dr. Wolach also has written innovative tutorial programs for teaching statistical procedures, which include a statistical package that is optimized for psychologists. Dr. Wolach has also written a number of books on Statistics and Methodology, concentrating on computer programs for data analysis. Dr. Wolach's work in instrumentation and computer technology has made it possible for him to reach an audience that extends beyond academic psychologists. His articles in magazines have also allowed him to communicate his interest in electronics to a wider audience.

Shravan Mahadevan
TechNews writer

Dr. Allen Wolach, Professor & Undergraduate Advisor in the Psychology Department, has a PhD in Psychology from the University of New Mexico. Dr. Wolach has been a faculty member for over 32 years and was chairperson of the Psychology Department from 1985 to 1991. Dr. Wolach teaches various courses for the undergraduate level and a few graduate level courses also.

Dr. Wolach's main area of interest is Animal Learning (Experimental Psychology) and he has conducted research in this field for many years and has published as many as 40 papers. When Dr. Wolach started teaching at Illinois Tech, the students favored the Experimental Psychology program, which led him to conduct research in this area. He uses goldfish and rats as subjects for his research. More recently the decline in the applications of Experimental Psychology has led Dr. Wolach to redirect his scholarly efforts to computer technology.
Sexual Responsibility Week

As a freshman, you realize the liberty and possibilities college life offers you... staying out with no curfew, drinking, finding your special someone... basically doing what you want, whenever and wherever you want to without parental consent. However, with this newfound freedom come new responsibilities such as maintaining the delicate balance between academic and social life. This new lifestyle also comes with greater sexual responsibility; the risk of contracting sexually transmitted diseases (STDs), rape, and sexual assault is significantly increased.

Thanks to Sexual Responsibility Week, you could help yourself foresee and prevent many risks. The week of February 4th was Sexual Responsibility Week at Illinois Tech. Hugs, kisses, condoms, and informational pamphlets were given out throughout the week at the HUB. On Tuesday, Public Safety led a discussion on keeping yourself safe (from date rape, drugs, and alcohol). For Women taught self-defense for both women and men. On Wednesday, Dr. Tamara Sher discussed gender communication. At Sex with K.J. - A Return Performance, K.J. joked about sex and relationships in a very informative manner. Sex with K.J. was a big hit among students. K.J. discussed various topics from sex and protection to masturbation and sex toys. I thought she was a good speaker. Students are more inclined to listen to people like her than someone in a health class. I had a good time,” said freshman Jerry Siragusa. K.J. discussed topics in a very casual manner using common lingo. “People pay more attention when they use a new kind of language like dick and pussy. I like the way she made people feel comfortable with their sexuality,” said freshman Alison Smith. K.J. went into great detail and discussion. “It was a little too explicit for me, but I liked the fact that she was very open. It was very informative.” said junior Sahar Karshani. On Thursday, the movie "Harry and Sally" which explores the difficulties in relationships, was shown at the ASA Rotory house.

From Sexual Responsibility Week, one learned that it is imperative to be well informed about sexual health risks. Some helpful advice and reminders:
- Abstinence, or no sex, is the only sure way to prevent the contraction of STDs.
- Don’t have sex when you are drunk or high. Alcohol and drugs impair your ability to make wise decisions.
- Don’t allow any of your partner’s body fluids to enter your body.
- Use a latex condom with spermicides during vaginal, anal, or oral sex. (Yes, you can contract STDs through oral sex.)
- Never use oil-based lubricants (lotion, massage oil, or petroleum jelly) as they will tear the condom.
- Use water-based lubricants instead (K-Y jelly).
- If you are ever sexually assaulted, report it immediately. You can seek help at Illinois Tech’s Counseling Center.

Sex With K.J. and Sex-Tac-Toe

A look at IIT’s Martial Arts Club

Among the many informative and entertaining events of Sexual Responsibility Week, were sex-tac-toe, held on February 4th and Sex with K.J., which was held on February 6th. Speakers at the events were candid while discussing the associated problems and issues.

K.J. talked about sex toys such as dildos, butt plugs, and vibrators and educated the students on the right way to use them. Her opinion was that it is people used them, why not just tell them how to use them correctly? “I’ve never used sex toys or anything like that, but I thought I knew of pretty much all of them that were out there. I mean, there is only so many different types that you can make. But when K.J. brought out the butt plug, I was seriously wordless. I have never seen one of those things before in my life. I didn’t know they made butt plugs” said Allison Smith, a freshman electrical engineering student.

A surprising fact is the number of people who do not know how to put on a condom correctly. Though this is not a very complex process, using it correctly is the only way to help prevent pregnancy and sexually transmitted diseases (STDs). Students learned about many STDs including ones that have recently attracted more attention in society. One such STD is the disease caused by Human Papillomavirus (HPV), which causes among other things, warts, dysphasia, genital warts, and plantar warts.

Another event that attracted much interest was sex-tac-toe. Students competed in teams of three. The objective was to answer questions about sex and STDs correctly to get a chance to put an X or an O in one of the tic-tac-toe boxes. Whichever team ended up with a row of three or just had more of their letter in the tic-tac-toe box won and moved on to the next round. The winners received generous prizes: 1st place winners received gift certificates to the bookstore and runners up got dinner and movie passes.

All events held during the week were well-attended and students who attended agreed that the events were very informative.

Are you frustrated with school work? Do you want to vent your frustration? Have you ever considered getting involved in a martial art? If you answered yes to any of the following questions, then it might be worth your time to join the Martial Arts Club. The main discipline of the Martial Arts Club is Tae Kwon Do, a Korean martial art. Tae Kwon Do or, “the way of kicking and punching” focuses mostly on high kicking, but not at the expense of its punches and other hand techniques.

Ben Hunter, a third year aerospace engineering student, teaches the classes. Mr. Ben, as the club has taken to calling him, is extremely qualified to have instructor responsibilities. In the past Ben has taught Tae Kwon Do, and he is currently the official Tae Kwon Do instructor for the State of Illinois the Tae Kwon Do Grandmaster of North America personally chose him. By the age of only fourteen, he had already earned his black belt, and ran his own Tae Kwon Do school, teaching children and adults. He has also competed in the Junior Olympics along with a variety of other international tournaments.

Along with Tae Kwon Do, Hunter also incorporates some Hapkido, another Korean martial art, into the classes. For the last two years, he has been taking private lessons from the American Hapkido Institute (America’s representative in the world of Hapkido). The Illinois Tech Martial Arts club meets on Mondays, Wednesdays, and Thursdays from 8:30pm to 10:00pm. The classes are held in the north basketball courts in the Keating Sports Center.

The Martial Arts Club will be giving a free demonstration on Friday, February 15th at 1:00pm in the HUB cafeteria. The demonstration will consist of basic self-defense and sparring techniques, a display of different kicking combinations, and a variety of board and brick (that’s right, brick) breaking. Everyone is welcome to attend and see what the Martial Arts club is about.
Features

Spring 2002 Career Fair:
Making the most of a slow economy

John Crame
TechNews Writer

It's semi-annual career fair was held last Thursday, February 7th, in the HUB. Starting at noon, 21 different employers ran booths to greet students interested in employment and collect their resumes.

Because of the downturn in the economy, there were fewer companies at the fair than usual. Jeremiah Bridges, of the CDC, reported that about 40 companies had signed up for last semester's career fair, compared to the 21 that were on hand for the spring 2002 event. Bridges also said that fairs held in the fall normally attract more employees than in the spring.

The career fair started off with a bang: there were over 500 visitors within the first hour and a half. What did this mean for the prospective employees that attended the fair? Long lines, fewer options, and less of a chance of finding that perfect fit. This is not to say that there were no opportunities available. Many of the companies were looking for interns, coops, and full-time employees.

People's Energy, who provides energy and gas to over 1 million people in northeastern Illinois, was looking for full-time field engineers, and interns in communication. What was interesting about this company was that the engineers would immediately be launched into a supervisory/management role within the company. How cool is that?

More engineering positions were available at STS Consultants, an engineering firm with several offices in the Midwest. STS had an interesting approach because although they are focused primarily in civil engineering, they have experience in many ecological applications.

Of course, there were positions available for people who weren't engineers. The IRS and NASD were on hand to find business, accounting, and economics majors.

Sears was also present, trying to find people to work over summer in their repair plant in Melrose Park. This was a great opportunity for a freshman or sophomore student who wanted to gain technical experience without having to meet an extensive amount of requirements.

By far, the longest lines at the career fair were for the companies who needed computer science professionals. The line for Siemens medical solutions stretched nearly the entire length of the ballroom. While standing in the Siemens line, Manish Agrawal, an international student in computer science, said "I'm having a very tough time finding a job right now, the market is very slow."

Software Technologies Group, a local software firm, was collecting resumes at its booth, but had no positions or internships to give out until the end of summer. This is a great example of how the current recession is affecting the job market.

Jagdish Lakhani, also a computer science major, noted that, "people aren't hiring, they take your resume, but won't call back." UBS Warburg exemplified this point. The recruiters at the Warburg booth were turning all of the people interested in full-time positions away. In fact, the lady at the table was rather rude about it.

In the end, the entire market has been reduced as of late. And although the career fair did present opportunities, there weren't enough to make it worthwhile for the average grad-to-be. It's back to job hunting in the newspapers and on the online job search sites, well, at least until the market speeds up again.
Public Nuisance

PAUL KROENKE
TechNews Writer

It was eleven o'clock Wednesday night and I was inside, taking care of my girlfriend who was sick at the time. Unable to bear being inside, I got up and started playing some mind-numbing games on my computer when, WHOPP, a snowball hit my window. I stood up and looked outside. What I saw brought a smile to my face; about twenty to thirty guys and girls were playing in the snow. "Awesome," I thought. Since I had other obligations I could not join them, so instead I watched from time to time, looking up from my screen in solitaire.

There really is nothing like the first real snow of the year. It's the same with a summer rain. People just have to be kids again. They just have to put aside their differences, to challenge nature head on and to play. It's just one of those things that brings out the best in people; thus, it must bring out Public Safety. Yes that's right, Public Safety, with their spotlight and megaphones, took it upon themselves to come and break up a group of kids having a great time in the snow. Of course this poor misguided officer forgot he was dealing with forty kids armed with a ton of snowballs and a huge urge to throw them. He spoke up, of course, and got himself pummeled. What else would have happened?

Apparently, the people that are hired to be Public Safety officers for this campus don't know what fun is. Perhaps, they were never kids. Or rather perhaps they didn't have people to play with when they were kids. Whatever the case may be they definitely do not like to see any students on this campus having a good time. This has been the case for the past three years since I have been at this school. Public Safety has stopped students from playing roller hockey on many occasions, despite the fact that there is a roller hockey club. Public Safety has felt the need to make their presence known at Greek Week events, which take place in the spirit of friendly competition and good fun. At one point during Greek Week of my freshman year, one Public Safety officer actually sat on the hood of my friend's BMW Z3, denting it, because he didn't like where it was parked. This is just one of my better stories about the agency that is, supposedly, in place for our protection. I'm sure you all have your own stories.

Late Wednesday night the snowstorm that the Midwest had been waiting for fell on IIT. Late Wednesday night a large number of IIT students decided they'd take advantage of the snow and have a good old-fashioned snowball fight. And late Wednesday night Public Safety did what they do best. At least this time they got their just desserts.
Restaurant Review: Broadband Café

Food: *****
Service: *****
Atmosphere: *****
Value: ******
(Reviewed on a 5 star scale)

Area: The Loop
Hours: 7 a.m. - 2 p.m. M-F, 10 a.m. - 6 p.m. Sat. and Sun.

58 E. Randolph St.
Chicago, IL 60601-7504
312-293-0060

Broadband Café is one of those places that would be listed under the "other" category in your favorite city restaurant guide. It is one of those restaurants that fall under the "first internet cafes" category. Situated in the heart of the city, the bytes this cafe offers are not just of the virtual sort. You can also get some excellent web-surfing nourishment, whether or not you choose to surf the web. Amusingly, the computing service listings are printed on a menu as though they were food items. Customers may choose one or more internet time slices for about five dollars for a half-hour (price varies by time period), and can also choose from a selection of optional sides of digital media and services, such as floppy disks and printouts. Why, from time to time, one should also check out their "value meals" and "up-sized combos".

Their hardware arsenal consists of Toshiba computers with flat-screen monitors, the Windows 2000 OS, and T1 internet connections. Their mouse devices are unfortunately not of the scrolling variety, Digital media and printing services are also available, and so are floppy, disk and CD-RW drives. There are even some "wires" devices. A separate seating zone is reserved for those who choose not to eat over a keyboard. The restaurant offers a fine selection of beverages, soups and salads, great side orders, and excellent coffee.

Customers who desire heartier fare can select succulent morsels from an assortment of lasagnas and pies, or have a bite of each in a super plate combo. A selection of fresh entrees is also available, such as a Subway-style personalized sandwich option. Sweet-toothed individuals will discover a delectable display of muffins, cakes, cookies, pastries, and the coup-de-grace, a sumptuous selection of cheesecakes.

The atmosphere and decor are elegant and inviting. The staff is friendly and accommodating. The service is fast, and the prices are reasonable.

So, if you are downtown and find yourself wanting a quick bite over some quality time on the web, or both, check out the great connections, fine food, and friendly service at Broadband Café.

Top Ten Reasons President Bush Choked on a Pretzel

1. He was trying to show his daughter that you don't need beer to enjoy a good pretzel.

2. He thought he could just order the pretzel into his stomach.

3. He couldn't find anything else to choke.

4. His wife told him to suck it up and be a man.

5. His daddy used to choke on pretzels when he was president.

6. He thought it would remind him of the old days when he danced naked on bars.

7. He likes to swallow pretzels.

8. He thought he could just order the pretzel into his stomach.

9. He was doing an impression of Monica Lewinsky to impress a Russian ambassador.

10. He was imitating one of his goats back on the ranch.

His dog was busy.
Tigers maul Hawks

JAYTHURSHAN SIVADOGNITHAN
TechNews Writer

Illinois Tech’s women’s basketball team faced the Olivet Nazarene University Tigers at the Keating Center on February 5th. From the start, the visitors did not have much trouble shooting and kept piling on points. The visitors were tall compared to the home team and this was a big advantage.

With points coming in all ways, the visitors had reached a total score of 46 by the end of the first half while the Hawks had scored 21 points. The Hawks improved in the second half although the visitor’s huge lead proved too much to overcome.

The Hawks did well to score 32 points in the second half, the visitors scored 38 points. The top scorers for the home team were Corinne Pahl and Gwenn Heyer with 20 and 16 points respectively while Cara Landis and Annie McCance were the top scorers for the visiting team with 20 and 13 points respectively.

“We enjoyed this game thoroughly especially because two of our players namely Cara Landis and Annie McCance had their career best scores in this game,” said Doug Peter, Head Coach of the visiting team.

The final score read (84-53) with the Hawks improving against their January 22nd (90-39) loss against the Tigers.

Basketball Standings (Thru 1/28/02)

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<th>Conference</th>
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Athlete of the Week:

Chris Osinski

Midlothian, Illinois is approximately twenty miles southwest of Chicago. Close, yet far enough to escape the city from time to time. This is one of the reasons why shooting guard Chris Osinski made Illinois Tech his choice for university education. He also chose to attend Illinois Tech because the university offered him the best scholarships and gave him the opportunity to play college basketball.

Osinski attended Bremen High School in Midlothian and played basketball and baseball. He played varsity baseball for three years as a right-handed relief pitcher and a centerfielder. He was named an All-Conference athlete playing the latter position and was captain of the team in his sophomore and senior year.

The 6’0” shooting guard credits his fifth grade coach in getting him started in basketball. Osinski played basketball all his four years in high school and was captain of the team for his third and fourth year. He was also named All-Conference and competed in a statewide three-point shooting contest. Osinski produced his season best 28 points against Saint Louis this past Saturday, February 2nd.

Osinski considers himself as a hardworking, goal-oriented, and athletic person. Life after Illinois Tech involves working for a firm and going into construction management, which is currently his specialty. He hopes to work in Downtown Chicago because he likes the city a lot. His own personal goal is to play pro or semi-pro basketball after graduating from Illinois Tech.

Osinski likes to go home every weekend if possible to visit his family. He has a younger brother, who also plays basketball, and a younger sister, who is into swimming. He likes to listen to R&B music and his favorite group is Boyz II Men.