Chi Phi Faces New IFC Sanctions

By Kevin R. Lang

In response to a series of rush violations this year, the Interfraternity Council has levied additional sanctions against the Chi Phi fraternity, including a $1500 fine and restrictions on recruitment activities for 2002. Under IFC Judicial Committee bylaws, fines must not exceed $500 per incident. Chi Phi was originally prohibited from hosting registered events before rush begins in the fall. House President Isaac J. Dancy '03 said that despite the fact that none of the sanctions would take effect during rush itself, "it would have a severe impact on our rush." "It seems really harsh in my opinion," he said. "Freshmen couldn't even theoretically know we existed." Dancy said that Chi Phi relies heavily on their rush book to draw potential pledges.

IFT tried to negate any advantage IFC President Rony P. Pfeiffer '02 said that the sanctions that were issued as a way to "level the playing field" for next year's rush. "What occurred this past rush gave them an unfair advantage over other houses," Pfeiffer said. Pfeiffer admitted that the lack of summer contact "makes their recruitment more difficult." Vice President Bryan D. Schmid '03, who served as facilitator for the executive review board, declined to comment. Chi Phi to request appeal Chi Phi requested an appeal of the IFC's executive review board's issuance of the sanctions against the fraternity.

By Richa Maheshwari

Despite overwhelming student support for anonymous medical services, await a protest against Dean of Admissions Marilee Jones in Lobby 10 on Wednesday. No students showed up for the protest.

John E. Dricoll of the Campus Police (left) and Stephen D. Immennan, Director of Enterprise Services, await a protest against Dean of Admissions Marilee Jones in Lobby 10 on Wednesday, No students showed up for the protest.

Ketterle Wins Nobel For Work in Physics

By Eun J. Lee

The Royal Swedish Academy of Sciences named MIT Physics Professor Wolfgang Ketterle as one of the 2001 Nobel Prize laureates in Physics on Tuesday for his work in experimentally discovering Bose-Einstein condensates (BEC), a new state of matter. Ketterle shares this honor with two MIT alumni, Eric A. Cornell PhD '70 and Carl E. Wieman PhD '73. Four other 2001 Nobel prize winners in the categories of Chemistry, Economics, and Medicine also have close affiliation with MIT.

"This is testimony to the excellence of students and faculty who are attracted to MIT, and to our dedication to intense work in fields of fundamental importance," said President Charles M. Vest.

In their press release, the Swiss Academy recognized Ketterle and the two other winners "for the achievement of Bose-Einstein condensation in dilute gases of alkali atoms, and for early fundamental studies of the properties of the condensates." "On behalf of the entire [physics] department, this is an unbelievably exciting occasion," said physics department head and Donner Professor of Physics Marc A. Kastner. Bose-Einstein Condensates (BEC) were first theorized by Albert Einstein and Indian physicist Satyendra Bose in the late 1920's. Essentially, Einstein predicted that if a gas of certain types of atoms is cooled to a very low temperature, all the atoms will suddenly gather in the lowest possible energy state to form a new state of matter. "The primary impact of this discovery is that it is one of the few developments in physics recently that has unified the different subfields of atomic physics and condensed matter physics," said Professor David J. Pritchard.

The main problem that physicists had to solve in order to experimentally realize these subfields was that they couldn't cool the atoms to the temperatures needed to observe Bose-Einstein condensates. However, a series of advances that have included the development of laser cooling and optical traps have proven to be key to the experimental realization of Bose-Einstein condensates.

By Richa Maheshwari

Anonymous Medical Transport Appears Unlikely, Calls for Emergency Help May Reduce Sanctions

Administrators Develop New Policies on Alcohol

Anonymous Medical Transport Appears Unlikely, Calls for Emergency Help May Reduce Sanctions

By Richa Maheshwari

Despite overwhelming student support for anonymous medical transport, MIT has been unable to implement a system that complies with Massachusetts' underage drinking laws. Massachusetts state law prohibits possession of alcohol by anyone under age 21. Given the potential for disciplinary or even legal sanctions due to underage drinking, students who need medical assistance due to alcohol consumption have historically been reluctant to call for help.

However, Interfraternity Council Risk Manager Andrew T. Yue '03 said that changes to MIT's alcohol policy represent a step in the right direction. "The new policy has accomplished two goals. It promotes student responsibility [and] also lets out the actual consequences of an alcohol violation," Yue said.

Under the new policy, penalties for both first-time and repeat offenses will be reduced if alcohol violations are discovered as a result of a call for medical help. Sanctions

Alcohol Policies, Page 13

Kenneth Locke Hale

MET Professor of Linguistics Kenneth Locke Hale died on Monday, October 8 in his Lexington home. He was 67 years old. Hale arrived at MIT in 1967 with a BA degree in Anthropology from the University of Arizona, and a Masters and PhD in Linguistics from Indiana University, Bloomington. Institute Professor Noam Chomsky called Hale "one of the world's leading scholars." In a MIT News Office press release, Chomsky said Hale was "distinguished in his work, but also one of those very few people who truly merit the term 'a voice for the voiceless.'"

Hale studied the theoretical concept of language universals through cross-linguistic analysis. By learning many structurally diverse languages, Hale could discover the laws that they all shared. Explaining this line of study, Sabine Iatridou, professor of Linguistics, stated, "The idea is that if a particular phenomenon holds in a variety of languages, chances are it is reflection of what is called Universal Grammar, the properties of human language proper, not a result of accidental or historical reasons."

The preservation of diverse languages was another focus of Hale's career. He argued that language is a key part of a culture. In a 1995 interview, Hale said "When you lose a language, a large part of the culture goes too. Because much of that culture is encoded in the language." To combat this, Hale supported the study of linguistics by native speakers of indigenous languages. Paul R. Pinheiro '73 and LeVern Mosayyou Jeanne PhD '78, Navajo and Hopi, respectively, studied under Hale for their graduate degrees. They are believed to be the first Native Americans to receive doctorates in linguistics. Philip S. Khoury, dean of the School of Humanities, recalled Hale's work to the MIT News Office. "He had the ability to learn and speak languages by himself." Hale, Page 18
Schroeder Commits German Military
To War on Terrorism and World Role

By Ken Fileman
WASHINGTON

The Bush administration Thursday expanded its effort to ride herd on information about the campaign against terrorism, asking newspapers and all electronic media not to run unverified comments by Osama bin Laden or spokesmen for his al-Qaeda network.

White House spokesman Ari Fleischer said administration officials planned to contact newspapers, radio networks and possibly international television channels to convey the same request made on Wednesday to the five major TV networks. Do not run unverified statements by bin Laden or his representatives because they might contain inflammatory propaganda or hidden instructions to supporters.

"The president is pleased by the reaction of the network executives," Fleischer said. "There will be some additional phone calls made. . . . The same request that was made yesterday of the network executives will also be made to other media because of the same principle . . . which is not allowing Osama bin Laden or the terrorists to provide information that could facilitate any of their objectives in terms of killing Americans, bringing harm to Americans or using those messages as a way of sending a code to their terrorists."

U.S. networks have agreed not to air live, unedited tapes or transcripts of statements from bin Laden or al-Qaeda, as they did on Sunday and Tuesday.

Several newspapers ran transcripts of bin Laden's taped statement. Howard Rainton, the executive editor of The New York Times, which ran a transcript of bin Laden's statement, received a call from Fleischer Thursday morning, according to Times spokesman Catherine Mathis.

"Howell's response was that in ordinary circumstances our practice is to fully inform our readers," she said. "He did say that we would certainly listen to any information from the government that there was a special danger involved and then make a judgment."

Anthony Marro, the editor of Newday, which also ran a transcript of the bin Laden statement, said he would deal with any request on a case-by-case basis. "We've made our best independent news judgment in weighing the importance of the information to readers and whomever concerns the government has," he said. "If there is a compelling argument that damage could be done by publishing something, we will listen to it. But our goal is to give readers as much information as we can."

Several critics of secrecy in government complained that the Bush administration was using the cruise to create the terror attacks to clamp down inappropriately on the flow of information to the public. They cited examples that have already occurred, such as the administration sending a letter to comedian Bill Maher and his recent comments regarding American tactics. "All Americans need to watch what they do," said Fleischer regarding the decision.

The administration has squeezed a good deal of its credibility on this subject by overhearing and suppressing information unnecessarily," said Steven Aftergood, director of the project on government secrecy at the Federation of American Scientists, a nonprofit public policy group. "They began with a presumption in their favor that there is a legitimate need for operational security. They have squandered a good bit of it."
Massood, "he doesn't have the magnetism, Gen. Mohammed military training, those who know standing." son of a Muslim cleric, he went to Rabbani's Jamiat-i-Islami move-
of few word and not much formal ple. After fi e days of bombings, western Paki tan, about a two-hour by helicopter from the Tal-
Afghans cro sing into Pakistan here to win the trust of the fghan peo-
U.S. military presence is currently ed to allowing use of its airspace, aimed at allowing the alliance to retake the countries, angering the U.S. and fried that the next phase of
Ahmed, the most prominent of the few Afghan political scientists, sugge ted that the next phase of
Afghanistan, hoping to persuade the Americans enter Afghani tan, here to win the trust of the fghan peo-
"Fahim doesn't have the facili-
Tensions still exist between the Pakistanis and the Taliban supporters, who are trying to prevent the U.S. fromTable 1:
The 2001 elections were a test of the legitimacy of the civilians who have taken over the government in Afghanistan. The election was seen as a positive step in the process of democratization, but there were also concerns about the potential for violence and instability. The election was won by the Alliance of Liberals and Democrats for Afghanistan (ALDA), which is a broad coalition of political parties. The ALDA won 54 of the 114 seats in the National Assembly, while the defeated candidates included candidates from the Taliban and other extremist groups. The election was seen as a significant step towards the establishment of a democratic government in Afghanistan. The election was also seen as a test of the commitment of the international community to support the rebuilding of Afghanistan. The election was held in the aftermath of the 2001 invasion of Afghanistan by the United States, which was seen as a response to the attacks of September 11, 2001. The election was also seen as a test of the commitment of the international community to support the rebuilding of Afghanistan.
C’MON FOLKS! I’M OFFERIN’ 2.5% INTEREST RATES! THIS IS "HONEST AL" GREENSPAN HERE TELLIN’ YA TO SPEND! SPEND! SPEND!

Opinion Policy

Editorials are the official opinion of The Tech. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors, features editor, and opinion editors.

Disseants are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

Columns and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

Letters to the editor are welcome. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters and cartoons must bear the authors’ signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of The Tech. The Tech reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of The Tech. The Tech reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of The Tech. The Tech makes no commitment to publish any of the letters received.

To Reach Us

The Tech’s telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure who to contact, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. The Tech can be found on the World Wide Web at http://the-tech.mit.edu.
The Reality of Faith

Dan Torricelli

In last Friday's edition of The Tech, Matt Craighead's article employing relativistic and deterministic worldview.

Craighead's final claim against religious faith argues that faith is intrinsically opposed to the laws of physics. This is a misunderstanding of the relationship between faith and reason. Craighead's argument is that religious faith is based on blind faith, while scientific faith is based on reason and evidence. However, this is not a fair comparison. Scientific faith is not based on blind faith, but on a combination of evidence and reason.

For example, the theory of evolution is based on evidence from biology, geology, and other sciences. It is a scientific faith that is supported by the weight of evidence. Similarly, religious faith is based on evidence from personal experience, revelation, and tradition.

Craighead's claim that faith is blind is a straw man argument. It is not an accurate representation of religious faith. Religious faith is not blind, but it is based on faith in a higher power, a divine being, or a spiritual reality. This faith is not based on evidence, but on a personal experience of the divine.

Therefore, Craighead's argument is not a fair comparison. It is not a fair comparison of scientific faith and religious faith. It is a straw man argument that is not based on a fair comparison of the two.

Rationality of Various Beliefs

Guest Column
Brian A. Bauer

In the October 5th issue of The Tech, Matt Craighead wrote an article entitled "Religion is a myth." The article included a number of arguments against religious faith, including the following:

1. Craighead argues that religious faith is based on evidence that is not verifiable.
2. Craighead argues that religious faith is based on evidence that is subjective.
3. Craighead argues that religious faith is based on evidence that is not consistent.
4. Craighead argues that religious faith is based on evidence that is not critical.
5. Craighead argues that religious faith is based on evidence that is not logical.

Each of these arguments is flawed. They are based on a misunderstanding of the nature of religious faith.

Religious faith is not based on evidence that is verifiable, subjective, inconsistent, critical, or logical. It is based on evidence that is based on a personal experience of the divine. This experience is not verifiable, subjective, inconsistent, critical, or logical. It is based on a personal experience of the divine.

Religious faith is not a myth. It is a rational belief. It is based on evidence that is personal and subjective. It is not based on evidence that is objective and verifiable.
Freedom Under Fire

Tao Yue

MIT occupies a unique position among American colleges. As one student pointed out to Richard Berlin at last week’s dining forum, amidst much cheering and applause, “You keep talking about what our peer institutions are doing. As far as I can tell, we have no peer institutions.” In fact, as MIT, Medical students proudly proclaims, “At MIT, do things a little differently.”

Other colleges do not weigh down students with such punishing loads of work. MIT treats its students as though they do not need to sleep, contrary to the approach of many other colleges. But in return for that hard work, we get the given level of autonomy that no other college grants. We have choice, and with whom we live. At least, we used to.

We get to spend a year transitioning into the MIT dorm life, getting to know the residential area majors, and experiencing the many extracurricular that MIT and the Boston area offer without the pressure of grades. At least, we used to.

Other college students are stuck with meal plans. When they visit, they invite you to their dining halls, the rationale being something like, “You know, so many extra meals left on my card that I’ll have to eat ten meals a day for the rest of the term to finish them, so you might as well eat one of them.” When I told them of the MIT system of fully-yearly meal-plan balances, not a single one was amazed at our luck. Note: “were,” not “are” - next year’s meal plan, she has written that many yet, but I’m already tired.

About a week ago, Dean of Admissions Marilee Jones’ article in a faculty newsletter was distributed by students via e-mail lists. This article presented a frightening view of how the MIT administration views its students. Again, thousands of e-mails flew around on the topic.

Freedom is what MIT is all about. But that’s what students were defending with pride.

But not just our right not to be saddled with meal plans, but to have our freedom that MIT granted us as students.

About three weeks ago, a group of student center elevator operators got up, and turned off the elevators in the student center. The two were in the middle of a conversation and continued it as usual. When some people found the elevators down, they thought it was some sort of protest.

That plan came not just two weeks ago. Thousands of e-mails to administrators flew from student’s computers. Some students met with Chancellor Clay and reported that he seemed not to pay attention to any of their main arguments. We gathered last week on the dining forum, to discover all the options that the mandatory plan gets dropped. But the mandatory plan remains intact for next year’s freshmen, who won’t find anything wrong about being forced to pay for meals that they may not eat. Divide and conquer.

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Sundays: Current dance Chrome/Skybar.

Axis

Thursdays: Fantasy Factory.

Avaland.

Gay Night

Sundays:

1140 Boylston St.

Noon: Blues.

Wang Center for the Performing Arts. Featuring the solo talents of the Beethoven Piano Society of America, the Boston University Symphony Orchestra. Featuring the solo talents of the Beethoven Piano Society of America, the Boston University Symphony Orchestra.
We're all about the Big Ticket items.

What?

Speaking of which, do you think I need new shoes?

Well, they do seem to have that some of their lures.

We're a dinosaur! (come on, everyone)

We're a dinosaur! (come on, everyone)

What? (the dinosaur's attitude) I can do that! Look, u know the scenario: how can use the Rapid Antimony Value Assignment Method? (shushing)

So in the equation here, if you happen I use, say, ur grandpa's cost of $32, u want it, u alright, u alright, u alright; cost that birth year as 1, then, OH! look! mean us casket.

That girl! (such an expression)

I know! always there 2 remind us not 2 say truth in the power of BS. I need a screwdriver.

One Screw Loose

Screw Page 05

Arrgh!

AAAAAAA!

GRRRR... Glue Glue Glue Glue Glue

You should really shut down your cyberpunk problems on paper. It would be less expensive.

So what is that was my fifth laptop.

MIT3K by Toastyken

"Permanent Crescent"

Damn those crazy-ass red bastards! We should just build a giant wall all around their whole frickin' planet!

It's okay, Nick! It's okay...

I'm sorry, May. I...

With all the stuff that's going on... It's... I'm just don't understand any of it, May...

It's okay, Nick! It's okay...

I'm from Mars. You know...

I'm from Mars. You know...

Review the MIT3K archives: http://www.subjunctive.net/mit3k/
WHY'S THAT?
IT'S NOT FALLING
I WANT A HARD TEXTBOOK!
I DESERVE A HARD TEXTBOOK!

No, no, not the physics.
I am THIS PARANOID.
He missed a hole in one by six inches!

WHY SHOULD HAVE SEEN THIS?

THIS IS another hard reason I enough?

I HATE BEING THE YOUNGEST,
BY THE WAY.

ALL I GET IN FIFTH GRADE ARE WIMPY LITTLE EASY TEXTBOOKS, WHILE YOU GET TO STAY UP LATE TILL PAGES OF IMPOSSIBLE PROBLEMS IN YOURS!

I TOLD YOU THE CASSEROLE WAS HOT, Peter.

REMEMBER AGAIN WHY WE STRESS "HONESTY" WITH OUR CHILDREN?

OW! OW! OW!

OW! OW!

OW!

Hold on a sec.

WHAT ARE YOU WAITING FOR?

YOU ARE ONE STUPID BUT BRILLIANT INTELLIGENT PERSON.

I WAS TALKING TO MIKE, LET'S SEE. YOU ARE ONE STUPID BUT BRILLIANT INTELLIGENT PERSON.

YOU ONE DAY SHOULDN'T FORGET HOW I PASSED MY FIRST.

I NOTICE EVERY TIME YOU WAVE FOR PASSING UNTIL IT IS SELF-FULFILLED.

The Tech
Thursday, October 12
3:00 p.m. - 4:00 p.m. - Designing Heterogeneous Catalysts - How Far Are We? Department of Chemical Engineering, Northeastern University. Free: 66-110. Sponsor: Chemical Engineering.

4:00 p.m. - Mechanical Engineering Seminar. "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities." Free: Room 3-133. Sponsor: ME Seminar Series.

4:00 p.m. - 5:00 p.m. - Seminar: The Observational Method - Learning from Projects. The talk will describe recent developments in the use of the observational method through applications on four major UK infrastructure projects including the Channel Tunnel and the Heathrow Express. It will describe how simple interventions were central to retooling construction and civil engineering. Application of the method through the technique of "progressive modification" will be explained. This will show how this approach successfully addressed both technical and contractual constraints that otherwise would have prevented the opportunity to substantially change cost and time, free: Room 1-134. Sponsor: Engineering & Environmental Mechanics Group.


6:00 p.m. - 7:30 p.m. - Prayer and Praise Night. Come join MIT GCF for an evening of prayer and praise followed by dinner, free: Room: Student Center - 20 Chimneys. Sponsor: Graduate Christian Fellowship.

7:00 p.m. - 9:00 p.m. - Falun Gong Exercise Workshop. The Falun Gong exercise is an easy and effective way to improve one's health and mental health. Millions of people in over 40 countries practice these 5 sets of gentle movements, free: Room 1-242. Sponsor: Falun Dafa Club.

7:00 p.m. - 9:00 p.m. - "Stable manifolds and Kahler-Einstein metrics." Free: Room: MIT Room 2-149. Sponsor: Department of Mathematics.

8:00 p.m. - 11:30 p.m. - "Mechanical Engineering Seminar. "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities."

Saturday, October 13
1:00 p.m. - Football vs. Nichols. Free: Room: Steinbrenner. Sponsor: Department of Athletics.

1:00 p.m. - Field Hockey vs. Mt. Holyoke. Free: Room: Barry Turf Field. Sponsor: Department of Athletics.

11:00 a.m. - Women's Soccer vs. WPI. Free: Room: Stoeltenberg. Sponsor: Department of Athletics.

2:00 p.m. - World Premiere of Shadow Bang. Visually stunning and delightful, Shadow Bang brings together the electrifying and eclectic Bang on a Can All-Stars and I Wayan Wija, the foremost Bali-nese puppet master. Together, they create a world of larger-than-life shadows and elaborate theatrical forms that take audience members of all ages on a magical journey with light, shadow and music. Seven performers utilize the imaginary and the everyday, the traditional and the avant garde, the East and the West. Bang on a Can All-Stars includes MIT Professor Evan Ziporyn, clarinet. Works performed include new compositions by Professor Ziporyn. Please join us after the performance for a reception and conversation with the artists, free: Room: 6-120. Sponsor: MIT Anime Club.

8:00 p.m. - Lithuanian Chorus: Aukuras. Styles range from classical, to modern, to popular, free: Room: MIT Chapel. Sponsor: Music and Theater Arts Section.

8:00 p.m. - World Premiere of Shadow Bang. Visually stunning and delightful, Shadow Bang brings together the electrifying and eclectic Bang on a Can All-Stars and I Wayan Wija, the foremost Bali-nese puppet master. Together, they create a world of larger-than-life shadows and elaborate theatrical forms that take audience members of all ages on a magical journey with light, shadow and music. Seven performers utilize the imaginary and the everyday, the traditional and the avant garde, the East and the West. Bang on a Can All-Stars includes MIT Professor Evan Ziporyn, clarinet. Works performed include new compositions by Professor Ziporyn. Please join us after the performance for a reception and conversation with the artists, free: Room: 6-120. Sponsor: MIT Anime Club.

4:00 p.m. - 5:00 p.m. - EECS Colloquium Series. Structure and Interpretation of Classical Mechanisms. Free: Room: 34-101. (Edgerton Hall). Sponsor: EECS.

5:00 p.m. - 7:00 p.m. - "Stable manifolds and Kahler-Einstein metrics." Free: Room: MIT Room 2-149. Sponsor: Department of Mathematics.

5:00 p.m. - 6:00 p.m. - Mechanical Engineering Seminar. "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities."

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7:00 p.m. - 11:30 p.m. - "Mechanical Engineering Seminar. "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities."

Sunday, October 14
1:00 p.m. - 3:00 p.m. - "Mechanical Engineering Seminar. "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities."

3:00 p.m. - 5:00 p.m. - "Mechanical Engineering Seminar. "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities."
**Fall Festival Funding Increases**

Student Life Office Donates more than $100,000 to the Festivities

By Brian Loux

Preparations are complete for one of the largest Fall Festivals in MIT history, which begins this evening. This Fall Festival received significant funding from the office of Dean for Student Life Larry G. Benedict.

"Dean Benedict and other administrators gave us a lot, though none more than Benedict," said Nadija M. Yusuf '04, Social Chair for the Class of 2004. "People are trying to make Fall Festival as big as Spring Weekend. The Residential Life and Student Life Programs office and our committee wanted this to be big, which was why they gave so much."

Benedict funds Fall Festival

Benedict said that his department donated $100,000 to Fall Festival and other special activities around campus. Benedict said that this fall's event is larger because of the efforts of people like Fall Festival committee chair Bryan D. Schmid '03 and Interfraternity Council President Rory A. Pfeiffer '02, who began working on this event last spring. "They and others have been actively fundraising and have been very successful," he said.

Tracy F. Purinton, Assistant Dean for Student Activities, and Linda D. Noel, Program Coordinator for Student Activities, also helped to coordinate the weekend's activities.

Events may rival Spring Weekend

Organizers hope that this Fall Festival will be equal in magnitude to Spring Weekend. "We plan to ask for this and even more to be permanent additions once we are convinced that student groups and activities need more funding than they are currently receiving," Benedict said.

"We also hope that students will be interested in planning more large events at MIT because of this year's festival," said Suder C. Dalal '02, the Class Council President for the Senior Class.

With the traditional Festival fare such as activities on Kresge Oval and Sigma Kappa's Late Night, a free concert has been added to this year's lineup.

The idea for a concert was spurred by the Class of 2002 almost half a year ago. "We were inspired last year by the Naughty by Nature Concert for Humanit"y and its ability to raise so much money for charity," Dalal said. "We began planning for a concert the fall, but we later convened with Bryan Schmid on the idea of a concert for Fall Festival. We started fundraising much like [Habitat for Humanity] did with the Naughty by Nature concert, and we had a lot of help from the administration."

The entire plan for Friday's concert changed after September 11. The lineup was originally expected to draw headliners such as WyClef Jean and Eve, but with the threat of terrorism looming, artists became reluctant to perform in cities. The council was able to add two local bands, Missing Joe and One People, made the concert a free event, and changed the venue to La Salle de Puerto Rico in the Student Center. "We decided that it would be better to assist the [New York Firemen] relief efforts," Dalal said. "We are raising money for a good cause that is of immediate need."

The 2004 Class Council had originally intended to plan its own events, but decided to team up with the Fall Festival committee. "We were originally planning a pregame tailgate party before the homecoming game," Yousaf said.

"but we realized it would be easier if we joined with Fall Festival. The class donated money to the fund, which then gave us access to larger funding for our planned events.

The Class of 2004 worked with MacGregor House and Delta Tau Delta to create Saturday's Oktoberfest festivities. Sigma Kappa's late night has not been affected by the other events. The comedic talent show is still run solely by the sorority, and the proceeds will be donated to Alzheimer's research.

Weekend features football game

This weekend also marks the homecoming football game. MIT's Engineers hope to tie their season around with their first conference win this Saturday at the homecoming game. MIT, now 1-5 for the season, has not yet been able to capitalize on a promising win early in the season against Massachusetts Maritime Academy.

"Offensively we must control the ball and decrease our own mistakes," said Coach Dwight E. Smith, commenting on his plans for this weekend's game. This week the Engineers face a strong Nichols College team with a record of 3-2. Nichols remains undefeated in the New England Football Conference.

"The key to stopping their offense is to contain their record完美的quarterback," aid Coach Smith. "Last year we beat Nichols keeping them out of the Championship game. They will be looking to keep their record perfect in the division and we will be looking to spoil their chances."

The game will begin at 1:30 Saturday at Steinbrenner Stadium.

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**FOR MIT STUDENTS:**

**FREE**

**BOSTON SYMPHONY ORCHESTRA**

**TICKETS!**

The Council for the Arts at MIT will be handing out special passes for BSO tickets from a booth in Lobby 10, from 10am-4pm on: Wednesday, October 3 Thursday, October 4 Wednesday, October 10 Thursday, October 11 Tuesday, October 16 Wednesday, October 17 Thursday, October 18

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Talk to YOllr doctor about
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Colon cancer reenings are afe and
found early enough.

M. Kastner in re ponse to the
date as "the colde t matter in the
MIT community."

t the force of gravity.

Although the Boulder lab wa
lab w re in a race to form BEC with
method by hich

"An awful lot of the route to
BEC was paved here at NHT - fir t

Secondly, of thi re earch on it fundamental
level to under tand nature. econdly,
of nanotechnology and

 Nobel, from Page 1

Crossword Solution
from page 9

mitently produce BECs was that
of developing the technology to
supercool atoms down to micro
and nano Kelvins.
Pritchard best described the
magnitude of this problem in
the following synopsis: The average
room temperature is around 100
Kelvins. If you decrease this
temperature by a factor of ten, you
reach the temperature of interstellar
space. The temperature needed to
produce BEC is still more than a
million times less than that, where
the average velocity of each atom
is measured in millimeters per second.

Lecture shed light on BEC's
Ketterle gave a lecture on Thurs-
day evening in 10-250 to an audi-
ence packed with professors, stu-
dents, and other members of the
MIT community.

"I'm glad to see the 'usual' audi-
ence at our phy ic colloquium,"
joked Kastner in response to the
date.Using two eparate BEC
CRYSTAL

"You can prevent colon
cancer, even beat it."

Thomas J. Ge rytk and Daniel
Kleppner. The method of forming
BEC was later improved by using a
"clouded trap," which is now the
method by which MIT produces most
of the BEC used in experiments.

At the time, Ketterle and his MIT
lab were in a race to form BEC with
the Boulder group scientists with
which he shares the Nobel Prize.

"The race went on, and it was
the most exciting race of my life-",
said Ketterle.

Although the Boulder lab was
the first to form BEC, Ketterle and
his lab also formed BEC on Septem-

"We worked the whole night and
I had to teach 8:12 the next morn-
ing," said Ketterle.

Ketterle's major accomplishments
lay in the work of forming BEC, but
in researching the qualities of the con-
denstate. Using two separate BECs
which were expanded and mixed
one another, he obtained very clear
interference patterns which showed
that the condensate contained entirely
coordinated atoms. Ketterle also pro-
duced a "laser beam" using matter
instead of light, which was made of
a stream of small BEC drops falling
under the force of gravity.

"BEC is about the creation of
atoms with laserlike properties,"
said Ketterle.

BEC research continues
More research is currently being
conducted on BECs. "We are now
able to use optical traps as a transport
mechanism for BECs," Ketterle said.

He described the practical appli-
cations of this discovery as being
twofold. First, he elucidated the value
of this research on its fundamental
level to under tand nature. Secondly,
BEC are teaching scientists how to
manipulate atoms with an unprece-
dented amount of precision, which
may one day be the building blocks
for fields such as nanotechnology
and quantum computation.

"The field has explosively grown
and it's brimming with excitement,"
said Ketterle. "There is more to
come.

Success has many fathers
Prior to Ketterle's presentation,
he was introduced by three other
members of the physics department.
The recent spotlight on Ketterle
brings to light the many accom-
plishments and close-knit relation-
ships between many members of the
physics department faculty.

"Success has many fathers and
some grandfathers," Kleppner said.

"I am happy to be a grandfather."

"An awful lot of the route to
BEC was paved here at NHT - fir t
by the work of [Professors] Kleppa-
er and Geryt in evaporative cool-
ing and also by the contributions of
my group in laser cooling,"
Pritchard said.

"I feel I was privileged to finish
what these people have started,"
Ketterle said.

Pritchard has had six proteges go
to become Nobel laureates.

"Dan [Pritchard] began the
establishment of what is now a great
school of atomic physics," said
Kleppner.

"To me, this example of
mentoring is in the very best tradi-
s of science, teaching, and hope-
full of MIT."
MIT May Punish First Offense
Must Learn of Violation During Transport to Reduce Punishment

Alcohol Policy, from Page 1

for multiple offenses can include fines, formal complaints to the Committee on Discipline, and notes to parents.

Students still reluctant to get help
Yue said that MIT students continue to avoid calling for medical assistance for alcohol incidents. "Every weekend there are probably five or six incidents in which students do not go to Medical when they should because of fear of getting in trouble," Yue said. MIT keeps track of the names of underage people taken to the medical center.

Under the new policy, first time offenders are no longer issued an MIT alcohol citation. The first offense will be treated as a medical rather than disciplinary matter. However, if MIT learns of underage drinking by or means other than a medical call, such as a noise complaint, "there may be disciplinary sanctions for the first event," said Assistant Dean Carol Orme-Johnson, of the office of Student Conflict Resolution.

"Once students see how minimal the penalties are I don't think they will take the risk not to call MIT Medical," Orme-Johnson said.

However, Yue thought that students might still take their chances when reporting an alcohol offense, because the policy is not completely confidential.

"Sanctions for second offenses, which are quite rare, are designed to get the student to take the issue seriously," Orme-Johnson said. However, Yue said that second time offenses are often not reported due to the stiffer punishments.

"It is really about responsibility and accepting the consequences for your actions. We want a student, or living group who makes one mistake to learn from that experience and not repeat it," said Dean for Student Life Larry G. Benedict. "A student or house making a second violation, however, will be held responsible for that behavior."

MIT forms alcohol safety group
Some 600 students signed the petition calling for anonymous medical transport last year. In response, MIT formed the Alcohol Education Work Group.

"Confidential medical transport was a small part of a scheme to address alcohol issues on campus," said Undergraduate Association Vice President Allison L. Neznak '02. "We went to the administration with our request for it, but we didn't realize that there was a bigger picture."

ILGs still face harsh penalties
In the case of fraternities, sororities, and independent living groups, Yue said, houses do not fear MIT as much as they fear the Cambridge Licensing Commission or the Boston Licensing Board. The two licensing groups can enact severe punishments for alcohol violations, including eviction.

Although MIT's sanctions for living groups have not changed, they are now officially stated by the office of Residential Life and Student Life Programs.

"We have penalized living groups that violated the policy before, and these sanctions are in line with the sanctions we took over the last year. Now houses will know what to expect," Benedict said.

However, IFC Judicial Committee chair Thomas B. Fisher '02 believes that the new policy represents a significant step in recognizing self-governance of fraternities, sororities, and independent living groups.

"The Dean of Student Life may defer to IFC and not impose sanctions on a house if he determines that the sanctions imposed by IFC are sufficient," Fisher said.

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Harsh Punishment for Chi Phi
Follows 2001 Rush Violations

Story, from Page 1

...had been planning to speak to Assistant Dean and Director for FSILGs David N. Rogers regarding the sanctions, but thought that Rogers might be involved in the appeals process.

Dancy also said that a Chi Phi brother spoke to Dean for Student Life Larry G. Benedict regarding the sanctions. While Benedict said that he had discussed the fine and was aware of Chi Phi's effort to appeal, he said he was unaware of the summer contact and rush sanctions.

However, Benedict expressed concern over the possible impact of rush sanctions for 2002. "We enter a very unknown transition next year," he said.

Dancy said that Chi Phi is currently focusing on the appeals process rather than on ways to successfully run rush next year despite the sanctions.

Violations ended rush early
Chi Phi's first major violation of rush rules resulted from problems with wake up times. On two consecutive days, Chi Phi listed all freshmen wake up times as 9 a.m., regardless of the actual time that each freshman gave to Chi Phi. This practice is illegal under IFC rules.

Chi Phi's other major violations regarded jaunts, including a harbor cruise where freshmen returned late, and a jaunt to the activities midway where return times were not entered correctly.

As a result of this final jaunt violation, the IFC Rush Committee decided to close down Chi Phi's rush. There had been complaints filed against Chi Phi by over 17 IFC member houses.

To the MIT Student Body:

The Council for the Arts at MIT is still sponsoring a free ticket program in conjunction with the Boston Symphony Orchestra.

However, the BSO changed the method of ticket distribution this year, introducing the "College Card" which allows MIT students a chance at free tickets to a specific number of concerts, the first of which is on October 26.

The BSO sent us 1,050 "College Cards" which were immediately snapped up at our booth at Lobby 10.

We are currently talking with the BSO to resolve the problem of ticket access for the remainder of the student body.

We will let you know the solution as soon as we have one, through an ad in the Tech, flyers, and e-mail announcements. Send me a message if you would like to be contacted directly.

Thank you for your patience.

All my best,

Susan Cohen
Director, Council for the Arts at MIT
cohen@media.mit.edu

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Hale Saw Languages
As Live Works of Art

Hale, from Page 1

the dozens and he did. Once I asked him about this, and he said, "the problem is that many of the languages I've learned are extinct, or close to extinction, and I have no one to speak them with!"

Samuel Hay Keyser, professor of linguistics, emeritus, at MIT, as well as friend and colleague of Hale for over 20 years, spoke of Hale's perspective on his studies. "Ken viewed languages as if they were works of art. Every person who spoke a language was a curator of a masterpiece," Keyser said.

Hale is survived by his wife, Sara; brother Stephen; and by four sons: Whitaker, Ian, Caleb, and Ezra. A memorial service for Hale will be held at MIT on Thursday, November 1st at 2 p.m., in the Wong Auditorium. Burial will be private.

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<th>Route 128 (Middlesex County)</th>
<th>Silicon Valley (Santa Clara County)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Housing Price</td>
<td>$162,337</td>
<td>$216,669</td>
<td>$463,234</td>
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<tr>
<td>Professional Salaries</td>
<td>Mechanical Engineer: $64,227</td>
<td>$61,377</td>
<td>$68,298</td>
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<tr>
<td>Electrical Engineer</td>
<td>$67,410</td>
<td>$64,599</td>
<td>$71,909</td>
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<tr>
<td>Computer Programmer</td>
<td>$40,146</td>
<td>$51,022</td>
<td>$57,821</td>
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<tr>
<td>Computer Analyst</td>
<td>$58,295</td>
<td>$65,072</td>
<td>$73,092</td>
</tr>
<tr>
<td>Job Growth Since '97</td>
<td>4.0%</td>
<td>4.5%</td>
<td>3.2%</td>
</tr>
<tr>
<td>Cost of Living Allowance</td>
<td>114.3</td>
<td>120.9</td>
<td>141.7</td>
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Sweeps.

**MIT** varsity heavyweight crew team returned to Boston with gold medals in hand after winning the Open Four event at the Head of the Ohio regatta in Pittsburgh last Saturday. The Beavers also competed in an Open Eight race and a 500-meter sprint in an event at the Head of the Ohio. The Ohio Regatta is the second largest regatta in the United States, surpassed only by the Head of the Charles in number of competitors.

The Open Four event was the Beaver’s second of the day. The four-man team’s top eight rowers split into two fours after hot-seatting from the right sprint.

Coach Gordon Hamilton was very pleased with the effort. “It was gratifying to finally capture the trophy, having come in second once and third numerous times,” said Hamilton.

The race marked the first time the members of the winning four—Nicholas K. Abercrombie ’03 (stroke), Joshua G. Kubat ’03, Collin P. O’Shea ’03, Brian K. Richter ’02, and Jonathan L. Berkow ’03 (cox)—had rowed together in a four all fall. It was also the Beaver’s first race of the season. MIT (15:35) put out a stunning twenty-six second margin over second-place University of Pittsburgh (16:01), who was rowing on their home course.

MIT’s second four—Matthew G. Richards ’04, Matthew C. Waldon ’03, Michel A. Rhein ’03, Alan M. Hobs ’03, Sandra M. Cheung ’04 (cox)—managed to finish sixth in the field of seventeen boats, despite several lingering odds. They finished only one-minute behind the winning four in a time of 16:35.

MIT did not fare as well in the Open Eight head race, which they participated in immediately after the fours race. The Beavers finished tenth out of eleven crews in that race, due in part to exhaustion from the previous race and also missing confusion stemming from missing the official start time. The team’s focus at the regatta, however, was on the Open Four, as they plan to make that the priority boat for the upcoming Head of the Charles regatta.

The Beaver Crew now looks forward to the New Hampshire State Championships this coming weekend as their final preparation before the Head of the Charles in two weeks. “My immediate goal and that of my boat is to win a medal in the Championship Four event at the Head of the Charles,” Kubat said.

**MIT Sweeps Tournament Volleyball Five Conference**

By Paul Dill

After having their 16 match winning streak broken last weekend against Springfield College, MIT bounced back and won five straight matches this past weekend to win the Eastern Connecticut State University Tournament for the second straight year.

The Engineers did not lose a single game as they rolled over LaGuardia College, Plymouth State College, Endicott College, Babson College, and host Eastern Connecticut State University to earn the championship trophy.

Middle hitter Lauren E. Frick ’03, had a strong weekend anchoring the offense with 33 kills, while Amy W. Mok ’02 served up a team-high of 16 service aces for the tournament.

Co-captain Barbara J. Schaltenbrak ’02 earned All-Tournament Team honors, and setter Christina Almodovar ’02 was named the tournament’s Most Valuable Player.

This was the fourth straight tournament that the Engineers have won this season, pushing their record to a staggering 16-2 for the season. MIT remains the number one in the New England region and number 20 in the Division III national ranking.

**Head of the Charles in two weeks.**

**Championships this coming weekend**

**As their final preparation before the**

**Head of the Charles regatta.**

**MIT lost 6-1.**

**Page 24**

**THE TECH**

**October 12, 2001**