MIT's Oldest and Largest Newspaper

Established 1861

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Tuesday, September 16, 1997

Air Force Secretary Widnall Leaves Post, Returns to MIT

By Katharyn Jeffreys and Douglas E. Holmberger

Secretary of the Air Force Sheila E. Widnall '60, a former associate provost, announced last week that she plans to leave her post and return to teaching. The universities of aeronautics and astronautics on October 31.

As I have planned all along, I will return to MIT," Widnall wrote in a letter to President Clinton. "I am proud to have served you and the nation, and I sincerely thank you for this opportunity you've given me."

Widnall took a leave of absence from MIT to become Secretary of the Air Force in August 1993.

Widnall served as leader of the Air Force during a period marked by problems involving the space shuttle. Among these were the adultery case of 1st Lt. Kelly Flink and the fallout from the bombing of a facility housing U.S. troops in Saudi Arabia during 1990.

"Four years is quite a long leave of absence at any institution. MIT has been more than generous," Widnall said in an interview.

The White House has so far made no announcements regarding who will be nominated to succeed Widnall.

Widnall's role at MIT undecided

While Widnall's return to campus is anticipated by the administration, her full role at the Institute has not yet been determined.

Widnall resigned from her administrative duties at MIT to become Secretary of the Air Force. "I leave of absence allows her to return to her position as a professor of aeronautics and astronautics, Widnall said.

Widnall is "looking forward to"

Many freshmen taking more advanced classes

Calculus I with Theory (18.014) and the more theoretical version of Physics I (1.01) witnessed a 50 percent enrollment increase this year.

The size of the 8.012 class increased in part because MIT changed the way in which it awards incoming freshmen credit for Physics I (1.01).

In previous years, a score of 4 or 5 on both parts of the Advanced Placement Physics C exam, both Mechanics and Electricity and Magnetism earned students credit for 8.01. But recently, the professors Placement Physics C exam, both incoming freshmen credit for 8.01.

This year's fall 8.02 enrollment was 51 students enrolled in Calculus I with Theory (18.014) this year makes it the largest of the level of incoming students," Kleppner said.

The physics department also rec-

SIRIUS satellite

The AXAF space observatory will become Secretary of the Air Force in August 1996.

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New features added to classrooms

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Nasa sets up control site in Cambridge

By Jennifer Lane

One Friday, NASA Administrator Daniel S. Goldin officially opened the Advanced X-ray Astrophysics Facility Operations Control Center, located at Draper Laboratory. The event marked the first time that NASA has transferred control over mission management to a research center at the outset of the project. In this case, the control flowed from NASA's Marshall Space Flight Center in Huntsville, Ala., to the Smithsonian Astrophysical Observatory in Cambridge.

"NASA has a new philosophy," Goldin said. "The change was moti-

Control center monitors missions

The AXAF space observatory will be launched aboard the space shuttle in September 1996. Once in orbit, the craft will be monitored, managed and maneuvered by flight engineers in the OCC, who will also process the data it relays to Earth.

The center will be staffed at all of three stations comprising NASA's Deep Space Network in Spain, Australia and Owens Valley, Calif., then relayed to the orbiting spacecraft.

Times, said Bruce Twambly, a spacecraft systems engineer. "The flight operations team will perform round-the-clock support."

Nasa, Page 14

The ins。“

6,001 returns to

Scheme exclusively, and

6,170 will be taught in

Java, Page 7

Police Log Page 19

Comics Page 10

The Weather

Today: Clearing, 75°F (24°C)

Tonight: Clear, 57°F (14°C)

Tomorrow: Sunny, 74°F (23°C)

Details, Page 2

Nasa Administrator Daniel S. Goldin signs the plaque officially giving the control of the project to the Smithsonian Astrophysical Observatory. The instrument is scheduled to be launched in 1998.
**WEATHER**

**Foreshadowing Autumn**

*By Chris E. Forest*

**COLD MINNESOTA**

What should we expect for a pleasant week in September? Pretty much what we got July and August: cool, calm, and cloudy. The transition to winter begins officially this Sunday, we can expect storm activity to increase soon. Luckily, it won’t be happening just yet. We are caught on the edge between two low pressure systems that are colliding, and should expect pleasant weather with mostly sunny skies and light winds. To our west, the next system will develop and approach later in the week, providing an interesting weekend outlook. We’ll let the next forecasters take care of that but one should expect some clouds in advance of the system late Wednesday and into Thursday.

**Tuesday:** Sunny skies.

**Wednesday:** Mostly sunny with high clouds advancing. High 74°F (23°C). Low 59°F (14°C).

**Thursday:** Partly cloudy and possible showers late. High 73°F (23°C). Low 60°F (14°C).

**WEATHER**

**FORESHADOWING AUTUMN**

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Volunteer in Cambridge Elementary Schools
Teach Science
Tutor Kids
Impact a child's life.

On the web after Friday, September 19th:
http://psc-vcc.mit.edu/links

Call for Review of Tianamen
Crackdown Stirs Up China

The political ghost who surfaced to haunt the key national Communist Party congress here Monday reminded everyone that the memory of the army's brutal crackdown in Tiananmen Square eight years ago has not been erased. At the center of the controversy — just as he was in 1989 — is former Communist Party secretary general Zhao Ziyang. A letter purportedly written by Zhao, an avid reformer who was removed from the party's top position after he opposed using the army to crush the Tiananmen student demonstrations, appeared in Hong Kong newspapers Monday and quickly made the rounds of the capital, stirring up the tightly controlled 15th party congress.

The typed three-page letter called for a "reassessment" of the June 4, 1989, incident in which army tanks and soldiers killed hundreds civilians. "While the military suppression calmed the situation down," the letter stated, "we cannot but say that the people, the army, the party and government and our country all paid a great price."

Graduate Student Council

5:30 PM, Friday, Sept. 19
GSC Lounge, 50-220.
Fun event where you can socialize and relax while enjoying snacks, drinks, and conversation.

*Proper ID is required.

Become a GSC Representative

The Graduate Student Council is composed of voting members from Institute departments, programs, each graduate living group on campus, and representatives living off-campus.

To become a representative, just collect the signatures of 20% or 20 members (whichever is less) of your constituency. Application forms can be found outside the GSC office in Walker Memorial (50-220), or on the GSC web page. For more information, email gsc-vice-president@mit.edu. Applications are due by 9/30.
R/O, Sorority Rush Need Rethinking

I came back to campus early this year to work during Residence and Orientation Week, both as an R/O worker for my dormitory and as a Dormitory Council Judicial Committee worker. I experienced enough of R/O's subtle flaws to nearly give up the resolve not to rejoin. Since I could not place blame on any specific person I guess this was a moot point anyway.

The largest problem I see with R/O, and the one which has prompted me to write this letter, is the rather questionable status of female freshmen at the beginning of R/O. They are at the most at risk point of R/O's biggest event, Killman Kick-Off. R/O is a hectic time and sorority rush just makes it more so. To alleviate this problem, I believe sorority rush should be moved. Move it to Independent Activities Period, to sophomore year, to the middle of term, or activities week during R/O, whenever, but away from residence selection.

What are female freshmen to do Friday night and Saturday afternoon before dormitory R/O begins, when freshmen need to sort out where they will live, seeing as sororities are a non-residential option, at least for freshmen.

At this point sorority rush becomes a princely task of the entire R/O experience, but the inconsistency does not end there. The main point of the Women's Committee is to protect and assist new female freshmen to attend sorority rush. Indeed, I have met with female freshmen who thought it was mandatory to attend sorority rush and they were not happy about it. For Friday night and Saturday morning perhaps this is okay, but not after dormitory R/O begins, when freshmen need to sort out their lives into finding out where they will live, not to mention their sorority rush.

I am sure that a parent of female college students can tell you its okay to want to be a sorority member, but a parent of female students at MIT can tell you that it will not be necessary. When I asked them about sorority rush they professed to be uninterested in it. I also encountered male freshmen in the same position. People touring dormitories during this time get an unfairly incomplete picture, because dormitories are not really prepared to entertain freshmen.

An additional problem I have with sorority rush is in the happenings within it. While I was sitting in the male dormitory tour group I watched one of my housemates wearing more than a normal amount of make up kicked across her face. This person had never been wearing make up before and I questioned her later and found that it was mandatory for sorority rush.

I believe sorority rush should be moved. Indeed, I am happy where I live now and am going to graduate soon. I really am not a very candidate for sorority rush. I am sure that many of my parents during their college years did not have enough time to see all the dormitories, and they were not happy about it. For Friday night and Saturday afternoon before dormitory R/O begins, when freshmen need to sort out where they will live, seeing as sororities are a non-residential option, at least for freshmen.

Letters and The Editor

Letters to the Editor are welcome. Electronic submissions are encouraged and may be sent to letters@the-tech.mit.edu. Hard copy submissions are accepted as well, although e-mail is preferable. Hard copy submissions must be addressed to The Tech, P.O. Box 839729, Cambridge, MA 02139-7029, or sent by interlibrary mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters must bear the authors' signatures, addresses, and telephone numbers. Unidentified letters are printed anonymously without the express prior approval of The Tech.

To Reach Us

The Tech's telephone number is (617) 253-1541. E-mail is the easiest way to reach many of our staff. If you are unsure who our editors are, you may look up our telephone numbers at http://www.ai.mit.edu/people/techstuff.html.

The purpose of the course is to help artifical intelligence pursue its goal by making researchers aware of their unscientific biases. I personally think that religion is a worthwhile worthwhile attempt to approach the world I am just as convinced that religion has nothing to offer as I am convinced that with mechanistic explanations of humankind, it cannot offer any insights for the construction of intelligent machines. I am absolutely convinced that any religion and it doesn't matter if it calls itself "Science", "Objectivism", "Lutheranism," "Judaism," "Buddhism," etc. -- should be rejected as soon as it displays its theories in a fundamentally totalitarian, dogmatic and absolomist manner. I am finally convinced that the more clearly scientists recognize and try to eliminate the religious elements within their own research, the better their research will become; in this sense course 6.915 will support AI in reaching its goal to finally create a fully intelligent machine.

I finally would like to draw readers' attention to an association public lecture series on "God and Computers," where a variety of atheists, agnostics, Buddhists, Christians and Jehovah's Witnesses deliver lectures on religion and cognitive science or computer science. Here, people have the opportunity to discuss questions like the ones raised in Bender's column.

Anne Focht
Pondoktoral Fellow
Hearing We1 Out

The Nomination Debate Shifts From Personality to Process

Anders Hove

In a very real sense, Bill Weld's battle for the nomination has been nothing less than an oblique
challenge to Jesse Helms: the ambassador's public reputation in recent years has been of
a very real nuisance, Bill Weld's.

the ambassador Hip to e logo was e ne er the unacceptable point where political
advice and consent. Custom has so twisted the
nature of the Senate, its function to the
whether a senator is to be a committee

the House, a moving event marred by continuing

primary elections has begun to see that the fight tran-
sported to the national stage, and we have

Helms, and from Time and Clinton. The nomination has become a struggle
for basic due process in our national polit-

the use of the Senate as a forum for discussion has

the appointment of ambassadors with the Senate's
advice and consent. Custom has so twisted this
to the unacceptable point where formal procedures still serve at the whim of a single

the Senate fight has been fraught with ups and downs. There was the initial

the ambassador, which the local press met

One local television broadcast showed an
animated jumbo jet carrying the governor to
Mexico in the wake of Helms' opposition, with
its attendant alarm and con-

Undeterred, our Senator sailed

This last week, however, the

the House, a moving event marred by continuing
desperation among senators as to whether they

Last Friday, at a committee hearing that was not a committee

Helms back at the

and the Republican leadership,

Helms is the head of

Helms, a Senate appointment that has been

to an entirely new task. The Boston GLOBE has gone so far as to use

With the tremendous time crunch that MIT

I mentioned this idea to an upperclassman

and dinner one night, and he simply responded,

"That's too bad," he said. 

"What's the situation, the

called.

"Okay," he said. "The column is silly because you're writing about a topic and a

I spent the rest of the night trying to qualify

I saw it as an exercise in understanding

and the methodology used by many of the

weekly news magazines such as Time and Newsweek.

as a political sideshow. Ambassadors are said to

be political appointees, pretty faces sent to
appear in the back pages of major newspapers. The

this view is correct in many cases; and

would be true in Weld's case as well if the

notion not on such symbolic

value in the Mexican press. Foreign policy is

not just a matter of cool deliberation among

insulated organs of state. Foreign policy is

determined by the political and public will in

in the Mexican press, he is cheered as all that is good

and friendly in America, whereas Helms in con-

trast, is a gringo whose only knowledge of Central

America comes from Taco Bell.

Helms and the Republican leadership,

are, however, are loath to admit that the nomina-

tion might have some importance beyond their own

reputations. Friday, when

Bill Weld was called on to withdraw the nomination,

Helms has become a dignitary already, in the Mex-

ican press, where he is treated as all that is good

and friendly in America, whereas Helms in con-

trast, is a gringo whose only knowledge of Central

America comes from Taco Bell.

For Mexico, the Helms-Weld confronta-

tion has symbolic meaning far beyond the

ambassador's career. If Helms

had gone on to win the nomination,

will have undone a great deal of

progress in U.S.-Mexico relations.

We must simply be prepared to endure

the nature of the problem. The Senate

should do

In tead, it serves to underline the systemic

in the system. For example

the Senate has successfully combated in worst excesses — for example

by reducing the number of votes needed to end

Helms behavior has crossed the
time to declare to the situation in which

no hope should be shunted aside as obscure senatorial

principle. That Helms could find

154 cases where nominees were denied hearings

despite, it serves to underline the systemic

of the problem. The Senate should do

itself and the people a favor. Overriding

Helms now would go a long way toward giv- 

ing the Senate back its
tarnished digni-

ty.

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itself and the people a favor. Overriding

Helms now would go a long way toward giv-

ing the Senate back its
tarnished dignity.

It seems very unfair: Here we're the

brightest people in the
country, and we can't do everything we want to do because of a silly,
significant factor called time.

Around The World in Ten Minutes

Guest Column

Andrew J Kim

Originally, I intended to base this column
upon the ranking of colleges that the U.S.
News & World Report puts out year after year. I
saw it as an exercise in understanding college
rankings and the methodology used by the
magazine, and then go on and criticize all the
low quality journalism used by many of the
weekly news magazines such as Time and Newsweek.

What's the situation, the

called.

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weekly news magazines such as Time and Newsweek.
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Wednesday, September 24, 1997
Firmwide Information
Session for Undergraduates
Investment Banking, Investment Research, Asset Management, Equities and Fixed Income, Currency & Commodities
Presentation: 6:00 pm, Cambridge Marriott, 2 Cambridge Center, Salon 3
Reception: 7:00 pm, Cambridge Marriott, Salon 4, Foyer
Casual Attire

Wednesday, October 29, 1997
Information Technology
Information Session for Undergraduates
6:00 pm, Hyatt Regency Hotel, Cambridge, Room TBA
Casual Attire
Java's Out in 6.001, Welcomed in 6.170

By Steve Lim

This semester, Structure and Interpretation of Computer Programs (6.001) has returned to Scheme as the sole instructional language, while Laboratory in Software Engineering (6.170) is being offered in Java for the first time.

Experimental changes in 6.001 will affect the presentation of object-oriented programming. The new presentation will use object-oriented code entirely in Scheme, the standard language for 6.001.

"We're not changing Scheme, but are revising the problem sets on the object-oriented programming and using a new, more polished and clear, implementation of the Scheme OOP system," said Professor of Electrical Engineering and Computer Science Albert R. Meyer, the lecturer for 6.001.

Last year, some concerns were raised about the experimental use of Java in 6.001. Students who didn't have a computer with Microsoft Windows had to share resources to use Microsoft J++, he said.

Java will not be used this term and perhaps not at all this year, Meyer said. This year, 6.001 students should be able to do all their work with Scheme in Windows, on Athena, or in the 6.001 lab, he said.

The presentation of inheritance and classes has been modernized to reflect new developments in computer languages, said Professor of Electrical Engineering and Computer Science Rodney Brooks.

"The semantics correspond very well with Java," he said.

Abstraction still deemed important

Also, others wondered if the integration of Java would mean that 6.001 would not remain as a course towards many languages, Meyer said.

"The goal of 6.001 has never wavered from teaching programming concepts rather than any particular language," he said.

"We continue to believe that the most important programming concepts, which center around abstraction and modularity as a means to teach abstract programming concepts, which could be applied towards many languages," he said.

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Morgan Stanley

invites members of the Class of 1998 interested in domestic or international career opportunities in

Institutional Equities
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to our Firm Presentation on
Tuesday, September 23, 1997
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Room 4-270
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Lobdell Food Court

Graxy

The Graxy offers exciting recipes from the grain, legume, potato, and greens families and prepares them to order in a fresh contemporary style that emphasizes wholesome & vegetarian cuisines from around the world.

Fresh Flavors of Asia

All our entrees are prepared to order and served in Pan Asian "big bowl" styles. We offer a blend of traditional and new-wave Asian cuisines using only the freshest and most authentic ingredients to capture the essence of Asian flavors.

Networks

Flatbreads

Designed to fit the tastes of the individual, we offer a delicious selection of new-wave flatbread pizzas that are only the freshest authentic toppings, and bake them to order on flavorful Mediterranean flatbreads.

Pizza Wraps

We offer a cultural blend of made-to-order Wraps using regional flavors and the season's freshest garden ingredients and wrap them in flavorful pita flatbreads for the perfect hand-held meal that goes anywhere!

Fresh Tossed Salads

Our fresh tossed specialty salads are prepared-to-order from a seasonal selection of garden fresh ingredients, grilled meats, grains, pastas, and herb infused vinaigrettes.

Panini

Our Panini are prepared from a selection of cured meats, aged cheese, vinaigrettes, herb mustards, and garden greens to create layers of flavors and freshness in every bite.

Walker

Fresh Flavors of Asia

All our entrees are prepared to order and served in Pan Asian "big bowl" styles. We offer a blend of traditional and new-wave Asian cuisines using only the freshest and most authentic ingredients to capture the essence of Asian flavors.

Next House

Pasta Kitchen

The inspiration for our recipes stems from our passion for pasta. Each dish is designed to fit the taste of the individual, and are made fresh-to-order, capturing the essence of Mediterranean regions.

The Dome Cafe

Euro Bistro

Our bakery is the heart of our business. Inspired by old-world European bakersies, our menu features fresh-baked daily items as crusty breads, delectable pastries, scones, & cakes, and specialty items.

Fresh Juice Bar

Juicing is our specialty! Our beverages are fresh-squeezed or blended-to-order with bananas, berries, apples, carrots, yogurt, fresh squeezed citrus, and more! Get set for life...drink fresh squeezed everyday!

Panini

Our Panini are prepared from a selection of cured meats, aged cheese, vinaigrettes, herb mustards, and garden greens to create layers of flavors and freshness in every bite.

Refresher Course

Pizza Wraps

We offer a cultural blend of made-to-order Wraps using regional flavors and the season's freshest garden ingredients and wrap them in flavorful pita flatbreads for the perfect hand-held meal that goes anywhere!
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Workhorse Classrooms Get Computers, Projectors

Construction, from Page 1

head projector," Callahan said.

Student, faculty opinion included

Members of the faculty were actively involved in deciding how to renovate the out-of-date classrooms. Professor of Mathematics and Engineering Donald R. Sadoway, Assistant Professor of Chemistry Bruce Tidor, and Professor of Mathematics David A. Vogan PhD '76 were part of the design team. Callahan said.

Students were also consulted as to what renovations would be the most useful to their classroom experience.

Students who were taking class-es in Building 66, to which renovations were completed last semester, were polled about the furniture in the classrooms. The design team was interested in using the same type of furniture in Building 2, Callahan said.

In addition, other student and faculty concerns were addressed in the renovations. "A student came to us asking for voice amplification, and this was also something we had heard from one of our faculty members, so that feature has been incorporated into the rooms," Callahan said.

The Registrar's Office will be running training programs for interested faculty on how to take advantage of the updated facilities, especially in the setting of small recitation groups, is a valuable way to complement what students learn from the lectures, textbook, and problems sets," Lee said.

More buildings await renovation

Similar renovations are planned for selected classrooms in buildings 1, 3, and 5, Callahan said. "The Building 2 classroom renovations mark a commitment on the Institute's part to respond to one of the faculty's and students' primary concerns, which is the necessity of excellent teaching facilities," she said.

"I am delighted that the Provost has committed to renovating all the remaining workhorse classrooms in the main building," Bacow said.
THE STORY SO FAR: In France, Cupid meets Mr. G, the man who hired him to kill Rhino-Man for his head. Cupid reveals that Rhino-Man is alive, albeit drugged and unconscious, because the burns he suffered made him imperfect as a trophy.

Rhino-Man isn't a normal human, Cupid. You'd better hope he doesn't overcome the drugs.

There are enough trangs running through his veins to kill a dozen elephants, Mr. G. We have absolutely nothing to worry about, okay?

Your soup, sir

Wait a second!

I didn't order any soup!

by Zachary Emig

It's compliments of the house!

by Katy-Cat

broccoli

mushroom cloud

broccoli in a tutu
Batman and Robin in 26-100
Silk Stockings in 10-250
Hercules in 26-100
Double Replay in 26-100: Batman and Robin/Hercules

Last Words

Fri 7 & 10 p.m.
Fri 7:30 p.m.
Sat 4, 7 & 10 p.m.
Sun 4 & 7 p.m.

This feature was brought to you by the CAe Program Board. Today's facts are by the MIT Quiz Bowl team. Members of the quiz bowl team are not eligible.

Send your answer to trivia@the-tech.mit.edu by 3 p.m. Wednesday. Two random drawings from all of the correct entries will be held to determine this week's two winners.

These words were not spoken by a college student, but rather by the Welsh poet Dylan Thomas. They were the last words he spoke, as he promptly fell into a coma and died of alcohol poisoning on November 9, 1953.

What Union general's last words were "Why are you dodging? They couldn't hit an elephant at this distance?"

This week's winners will each win two LSC movie tickets, two sodas, and one large tub of popcorn.

Showing this weekend:

"I've had eighteen straight whiskeys. I think this is the record."

Puzzle Solutions

PUZZLE SOLUTIONS FROM LAST ISSUE

1. Mom
2. Avenue (abbr.)
3. Peak through
4. Amble
5. Make a mistake
6. Time zone (abbr.)
7. Station
8. Levy
9. -- Johnston
10. Door openers
11. Keep
16. Grease
18. Either
21. Burial
22. Black bird
23. Harp attitude
24. Walk in water
25. Saloon (Brit.)
26. Seat
27. Run (abbr.)
28. Peg
29. Utah Indian
33. Empty property
34. Dine
35. Few gatherers (abbr.)
37. 1st
41. Desert animal
42. Small boy
43. Festival
44. On top
45. 18th Greek letter
46. Saw
48. Jinx
49. Boy's group (abbr.)
50. Brew
51. Cavalry
53. 17th Hebrew letter
55. Football position (abbr.)

ACROSS
1. Bifrost
6. Pipe
8. Battle vehicle
12. Eggs
13. — Johnson
14. Medieval plant
15. Book of memories
17. Niece disease
19. Yea
20. Ban
21. Proportion
22. Snake
23. Abhirs soldier (abbr.)
25. Place
26. Article
27. Borderer
28. Play on words
29. Make one
30. NW face (abbr.)
32. Freedom
33. News gatherers (abbr.)
36. Devil
37. Fish eggs
38. Mixed mineral
40. Part of Bible (abbr.)
41. Father
42. Music
43. Chaos
45. Friend
46. Day (abbr.)
47. Near
48. Hi
49. Chaos
52. Horse gallop
54. Other different
56. Winger
57. Top
58. At the head
59. Damp

DOWN
1. Mother
2. Avenue (abbr.)
3. Peak through
4. Amble
5. Make a mistake
6. Time zone (abbr.)
7. Station
8. Levy
9. — Johnston
10. Door openers
11. Keep
16. Grease
18. Either
21. Burial
22. Black bird
23. Harp attitude

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6.170 To Be Taught With Java This Year

Java, from Page 7
manage program complexity, are more clearly illustrated in Scheme than most other languages, which is why we use it," Meyer said.

The class continues to be improved as weak areas of the Scheme language are refined and new programming trends are addressed, he said.

6.170 to feature Java instead

While 6.001 will be taught sans Java this semester, 6.170 is utilizing the language this term, said Professor of Electrical Engineering and Computer Science Barbara H. Liskov, who is teaching the course.

The new language seems to be working out fine, she said.

"There's been a desire to move 6.270 to a language that people will actually use on the outside," Liskov said. The course was moved into Java because the language has fairly clear mechanisms that correspond with the concepts taught in the course, she said.

These features include "complete compile-time type checking and garbage collection make it easier to explain concepts."

However, the version of Java used in 6.170, PolyJava, will not be usable on PCs, Liskov aid.

"That translator doesn't run on the PCs yet," she said.

In the spring, there should be a version that runs in any environment, to make it easier, Liskov said.

We would "like to let students who have their own PCs be able to do at least portions of the problem set at home."

In the past, 6.170 has been taught in a variety of languages.

Last fall, the course was in C++, and in the spring, it was taught in C.

Jennifer Lane contributed to the reporting of this story.

ETHICON, INC., a Johnson & Johnson Company, will be conducting an on-campus interview on October 14 for the following positions:

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Scientist

The resume deadline is September 25.

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ETHICON, INC., a Johnson & Johnson Company, will be conducting an on-campus interview on October 14 for the following positions: Metallurgist, Engineers, Scientists.

The resume deadline is September 25.

Made by Hong Kong
a China Forum
Co-sponsored by the MIT International Science and Technology Initiative and the MIT Industrial Performance Center

The term "Made by Hong Kong" describes the production network that Hong Kong industry has extended into China and elsewhere in the region. This Forum will be a presentation by the interdisciplinary team of MIT researchers who investigated questions of Hong Kong's industrial future in a year long study of Hong Kong industry from the micro to the macro level.

Presenting researchers include: Suzanne Berger and Richard Lester (Researchers and Editors), Andrew Bernard (Finance), James Leung (Biotechnology), Victor Zue and Helen Meng (Information Technology) and Rafael Reif and Charles Sodini (Electronics).

Does industry have a future in Hong Kong's high wage society? All those interested in industry in Hong Kong and China should attend this presentation of this provocative and pioneering report.

Location: MIT Bldg. E38, 292 Main St., 7th flr. conference room (next to the Kendall/MIT (T) stop, above the MIT Press Bookstore). Friday, September 19, 1997. 2:00-4:00pm. The Forum is free and open to the public.

Questions? Call Scott @ 253-7731 or email china@mit.edu.

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If you'd like to hear more about what a career with McKinsey offers, come to our presentation on Wednesday, September 17th at 6:00 PM in the Cambridge Marriott, Salon 3. A reception will follow.

Dress - informal. Atmosphere - relaxed. You are welcome to either bring your resume or C.V. to the presentation or submit it at a later date. For additional information, please contact Katherine Padgett at 800-221-1026, ext. 8826.

McKinsey is an equal opportunity employer committed to diversity in the workplace.
AXAF Control Center Will Find Cambridge to Be A Fitting Home

NASA, from Page 1

For most of that time, the staff will consist of only two engineers, Twombly said. "We should be able to handle it."

The OCC is housed in space which SAO rents from Draper Laboratory.

Cambridge site offers advantages

Choosing Cambridge as the site for the center has added historical significance, which Goldin outlined during his address.

"Cambridge was the birthplace of X-ray astronomy on planet Earth," Goldin said.

In 1962, Riccardo Giacconi, working for a Massachusetts research firm, and then-Professor of Physics Bruno Rossi discovered SCO X-1, the first known X-ray source outside the solar system.

The discovery came despite intense skepticism at the time about the existence of X-ray sources.

The expectation at the time was that Giacconi and Rossi's probes would "pick up absolutely nothing," Goldin said.

Instead, their discovery changed "our understanding of the universe," Goldin said.

With the advent of AXAF, state-of-the-art X-ray astronomy will return to Cambridge and "find a home at Hampshire Street," wrote Senator John F. Kerry in a letter which Goldin read at the ceremony.

The support of Senator John F. Kerry "went a long, long way towards getting the program started," Goldin said. The senator had intended to be at the opening ceremony, but was retained in Washington by hearings of the Senate Foreign Relations Committee.

Placing the control center in Cambridge, at a research institution and away from a major NASA site brought unique challenges.

For instance, the engineers staffing the center will need to be able to do a significant amount of troubleshooting on their own.

"They can't go next door to someone who's been doing flight dynamics for 40 years," he said.

Consequently, a significant amount of human engineering was factored into the systems that engineers staffing the center will use.

We tried to present "data points coming from the spacecraft in a way sensible to the engineer," said Myles Walton G, who has been working since June on the interface.

AXAF gathers important data

AXAF itself is "crucial to the understanding of the universe," Goldin said. "It's an amazing machine."

With it, scientists will be able to glean more information on the age of the universe and the building blocks of stars. They will be able to investigate black holes, exploding stars, and colliding galaxies.

"Some discoveries will build on what we know, and others will make everything we know upside-down," he said.

Once AXAF is launched, it will take its place with Hubble Space Telescope and Compton Gamma Ray Observatory as part of NASA's fleet of great observatories.

The staff of the ASC includes scientists, engineers and technicians from SAO, MIT, and AXAF prime contractor TRW, who have been directly involved with the design, construction and testing of the telescope and its scientific instruments.

SAO is a research institute of the Smithsonian Institution based in Cambridge, where it is joined with the Harvard College Observatory to form the Center for Astrophysics.

The SAO is the site of the AXAF Science Center, which will receive, analyze, and archive observational data from the spacecraft.

SAO scientists were also responsible for the design and fabrication of AXAF's special X-ray focusing mirrors and one of its primary imaging instruments, the High Resolution Camera.

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Widnall's Devotion
To Academia Hailed

Widnall, from Page 1

coming back" and being able to "interact with students," she said. In a letter to Secretary of Defense William S. Cohen, Widnall said she was departing to teach and to perform "duties in the senior position of government or industry," she instead decided to return to MIT, a reflection of her enthusiasm, Crawley said. "I think [her return] will be fabulous for the Institute."

Widnall is vocal about her commitment to academia, and specifically the Institute. "I've enjoyed my time at MIT and my opportunity to make contributions," she said. "MIT is my home."

Recognized for achievements

After receiving her doctorate in Aeronautics and Astronautics from MIT, Widnall held many positions, most recently serving as a professor of aeronautics and astronautics and as an associate provost. In her own words, Widnall has spent her "entire adult life at MIT."

Widnall was involved heavily in student affairs and academic integrity at the Institute. After serving as the chair of the Committee on Discipline during the introduction to Computers and Engineering Problem Solving (1.00) cheating scandal of 1990 ["COD Rules on cheating during the 1990-'91 Academic Year," Feb. 5, 1991], she called for an honor code for students.

Internationally, Widnall is well-known for her expertise in fluid dynamics, specifically in the areas of aircraft turbulence and vortices created by helicopters. She also holds two patents, one of which is known for her expertise in fluid dynamics.

Widnall's involvement in the Academy has been recognized for her achievements. Widnall was the first female to serve as the chair of the Academy at the Institute. After serving as the chair of the Committee on Discipline during the introduction to Computers and Engineering Problem Solving (1.00) cheating scandal of 1990 ["COD Rules on cheating during the 1990-'91 Academic Year," Feb. 5, 1991], she called for an honor code for students.

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Larger Classes Create Logistical Problems

Classes, From Page 1

that covered the first semester material in six weeks (18.01A), approximately thirty students took 18.014. Between 1992 and 1994, approximately forty-five students took 18.014 each year.

"The mathematics classes here usually fluctuate," Jonson said. "Comparing statistics of two consecutive years says nothing, because of the variation."

"Class size depends more on what students have been saying to each other," she said.

Large 8.012 class causes problems

Last September, there were 140 students in 8.012. By the end of the semester, 90 remained. Most of the fifty who dropped elected to take 8.01, and dropped within the first few weeks. This year, the enrollment began at 130, and increased to 204 by the second week.

The physics department scheduled their original five recitations based on previous years. Kleppner began the first 8.012 lecture by a survey of students' free time. Based on these numbers, three more recitations were scheduled.

The average class size then became approximately twenty-five. Eighteen is ideal size for the recitations, and 20 is the nominal number, Kleppner said.

One of those recitations had to be cancelled, as the same professor had been scheduled to teach both at the same time. Kleppner hopes to schedule yet another recitation.

To make up for the lack of recitation professors, the physics department hired graduate and postdoctoral students. "These students are advanced," Kleppner said. "I'm quite comfortable with them doing the job," he said.

Textbooks in short supply

The MIT Coop stocked too few 8.012 and 18.014 textbooks. Along with classroom handouts, Kleppner made available copies of the first chapter of the textbook.

By the first day of 18.014, 12 students out of 51 had not been able to purchase textbooks. The first problem set had assigned several textbook problems.

To ameliorate this situation, Professor Hayne Miller distributed copies of the first chapter during lecture. Not until last Thursday did the first of the 12 students buy the textbook.

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Resumé

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The Computing Help Desk is now hiring student consultants to provide telephone, walk-in, and on-line support for the MIT community during business hours (9-5). Training begins in late September. A mandatory orientation session for interested candidates will be held from 5:15-6:45 PM on Monday, Sep 22nd in room 1-380.

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Direct any questions to Alicia Allen, help@super@mit.edu
The following incidents were reported to the Campus Police between Sept. 2 and 11:

Sept. 2: New House, harassing phone calls; Bldg. E52, 1) suspicious activity, 2) bicycle stolen, $100; Bldg. E39, annoying mail; Briggs field, waist pack containing wallet stolen, $90; Bldg. E17, unauthorized use of telephone; Bldg. 1, male juvenile arrested for trespassing.

Sept. 3: Burton-Center House, bike stolen, $1,300; Johnson Athletic Center, unauthorized use of facilities.

Sept. 4: Bldg. E53, area broken into and $70 cash stolen; MacGregor House, backpack stolen, $30; Ashdown House, bicycle stolen, $188; Burton, bike seat stolen, $40; main parking lot, malicious damage to vehicle.

Sept. 5: Zeta Psi, wallet stolen; Ashdown, attempted larceny of bicycle; McCormick Hall, ring stolen, later recovered.

Sept. 6: Edgerton House, noise complaint; Bldg. E18, wire stolen, $1,000; Student Center, wallet stolen when person fell asleep, $200; New House, wallet stolen and credit card used; Student Center, attempted larceny of radio.

Sept. 7: Student Center, bicycle tire stolen, $50; Hayden Library, 1) suspicious activity, 2) change stolen, $0.50, 3) change stolen, $3.

Sept. 8: Bldg. 5, suspicious activity; Theta Delta Chi, bike stolen, $500; Bldg. E10, table stolen, $175; Bldg. 10, wallet stolen, $50; Bldg. 54, suspicious person; MacGregor, TV stolen, $249; Bldg. E38, indecent exposure.

Sept. 9: Bldg. 18, 1) jacket stolen, $150, 2) sweatshirt stolen, $30; Bldg. 33, pocketbook stolen, $210; Beckley Hall, tools stolen, $195; TDC, bike stolen, $300.

Sept. 10: Bldg. 48, bike rack, bike stolen, $550; Bldg. 20, 20 suspicious activity; East garage, malicious damage to vehicle.

When drinking, call a friend, or get a ride with a stranger.

Drinking and riding can lead to a loss of license, a conviction, or even worse. That's if you're lucky. The fact is, 30% of motorcycle fatalities involve riders who have been drinking. So if you have been drinking, get a ride with a friend. It's the best call you can make. Motorcycle Safety Foundation

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2:00-3:00pm Q&A
3:00-5:00pm MITSIM Demonstration

Come see the MITSIM demo featured on the front page of the Boston Globe
Women's Volleyball Defeats Tufts 3-1

By Paul Dill

The women's volleyball team opened its season with a big win over Tufts University last Tuesday. Although Tufts was heavily favored with the number three ranking in New England, MIT was able to win the match 3-1, which should propel them into the top eight in New England.

Tufts was one of the teams from the Northeast division to make it to the NCAA Division III Nationals last year. After a close start, down 1-2 in the first game, MIT was able to come back and score 10 straight points due to great serving and scrappy defense. Tufts was able to close out the first game 15-12, but the momentum had definitely shifted in MIT’s favor.

Led by setter Alyce Huang '00 who had 19 assists on the night, the Engineers were able to take the next two games 15-10, 15-12. The fourth game was hardly a challenge as outside hitter Jill Eich '00 and middle hitter Betsy Saillamaier '99 dominated the game with kill after kill leading to a 15-3 romp. Eich and Saillamaier ended the night with 12 and 15 kills respectively.

Saillamaier said that defeating Tufts was something that the team has strived for and that they "worked together as a team well." "We started off slow, but we gained a lot of energy and momentum and carried that over into the next three games" to win the match, Saillamaier said.

The next match for the team is tomorrow, against second-ranked Springfield College. The match will be in Du Pont Gymnasium at 7 p.m. On Saturday, the Engineers will take on Smith College at 1 p.m.

UPCOMING HOME EVENTS

Tuesday, Sept. 16
Women's Soccer vs. Emmanuel College, 4:30 p.m.
Field Hockey vs. Simmons College, 7 p.m.

Wednesday, Sept. 17
Men's Soccer vs. the University of Massachusetts - Boston, 4 p.m.
Women's Volleyball vs. Springfield College, 7 p.m.

Thursday, Sept. 18
Women's Soccer vs. Simmons College, 4 p.m.
Field Hockey vs. Gordon College, 7 p.m.
Men's Water Polo vs. Boston College, 7 p.m.

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