Sophomore shot in chest by unknown Boston gunman

By Diana ben-Aaron

About fifty scientists and engineers, some of them MIT faculty, staff, and students, and a robot picketed outside the Howard Johnson's Motor Inn on Memor- 
inal Drive yesterday to protest a conference at the hotel promot- 
ing the use of artificial intelli- 
gence and robotics in the battle- 
field.

The conference agenda includ- ed discussions of the introduction of autonomous control — "re- moving man from the decision- 
-making loop" — and the use of expert systems (programs that make specific decisions based 
on heuristics, or rules for guess- 
ing) in defense.

The two-day conference, and two others in different cities, were sponsored by the Interna- 
tional Defense Electronics Assoc- iation and led by Dr. William J. Whelan, Project Leader of the National Security division of the Rand Corporation.

"These systems could function 
as assistants, reducing the depen- 
dence on skilled humans," said Stanhope T. Berlin, a member of 
the sponsored research staff of the Laboratory for Computer Science. Of 
course, a pilot might get 
shot, but his plane would still fly.

(Please turn to page 17)

Athena expansion planned

By Diana ben-Aaron

The project to expand Athena clusters will open September 1. Proj- ect Athena Director Steven R. Lerman '72 announced Friday. The building 38 cluster is "virtu- ally running," he said, and the Building 6 basement cluster ter- minals are "not wired but there." 

The Building 6 cluster will not become part of the Athena net- 
work for some time after it opens, Lerman noted, but "eventu- ally, all clusters will be networked. You will be able to log on from any point even if your account is elsewhere," he said.

"Later, all work stations will 
serve as personal computers (PC's) and the VAX servers as servers to get your file [from 
the machine your account is on]," Lerman explained.

The Student Center Library 
cluster will go on line in Septem- 
ber or October, Lerman said. A machine room is under construc- 
tion in the library, and cable is being laid under Massachusetts Avenue for the Student Center machines.

"Terminals will be woven into the walls, and the car- 
rch will be converted to commis- 
saries and coffee outlets," Lerman explained.

The first class running new 
opera-tions after the Student Center will be the School of Science 
clusters in Building 4 and the 
mezzanine (half-deck between 
the first and second floors) of 
Building 6.

"These will be smaller, IM- 
provements, but not a 50 to 25 
percent decrease," Lerman said. "They 
[P lease turn to page 59]"
All fraternities will be in good standing for R/O Week

By Diana ben-Aaron

Two fraternities currently on probation and one whose rush privileges were removed by the Office of the Dean for Student Affairs are expected to be off probation by Residence/Orientation (R/O) Week, according to Associate Dean for Student Affairs Robert A. Sherwood.

"My hope is that all of the fraternities that are currently under probation or disciplinary action by the Dean's Office will have been dismissed and will be off probation by R/O Week," Sherwood said.

"If they don't have any problems between now and then, they will all be in good standing for Rush," he continued, adding that this may be "the first time in several years" fraternities will be off probation during R/O Week.

A fraternity on probation can rush freshmen on an equal basis with other houses, but must inform all freshmen of its status.

"I also meet with the fraternity's pledge class to outline the reasons for probation and explain what progress has been made," he said.

It is a rush violation for another fraternity to tell freshmen of the probation of the fraternity, Sherwood said.

"We try not to publicize it to the detriment of the house, because if other fraternities say 'only the dogs of the freshman class live there,' [the fraternity only] gets more animal houses type of thing rather than the type of freshmen they are," he continued.

Sherwood emphasized that his decision to remove restrictions on the fraternities would be "subject to whatever happens over the rest of the summer."

He noted that "behavior of the fraternities often deteriorates over the summer, because from other schools come in, the officers are often away. They have the stress of a new position, and the situations around."

The Dean's Office removed Pi Lambda Phi's rush privileges.

Sherwood said, adding that he had agreed to review this with the fraternity and restore rush privileges if "they could show they were in good standing and we could let our freshmen live there."

Pi Lambda Phi's rush privileges were revoked in the fall of 1982, according to the fraternity's president, John D. Lang '83 and rush chairman, Robert W. O'Rourke '83.

"There is a particular incident that prompted the probation," O'Rourke said, blaming "communication problems" for Pi Lambda Phi's status.

"Sherwood didn't make it perfectly clear why the Dean's Office revoked Pi Lambda Phi rush privileges," Lang said.

The Dean's Office has reinstated the fraternity's conditional probation status to "a stark" the Deke staged in the 1982 fall football game.

The fraternity planted a self-inflating rubber balloon bearing the letters "MIT" beneath the turf of the football field, and triggered it by remote control at half-time.

"Some Harvies thought [it could have been harmful]," Lucente said. "Someone up there had to be careful. MIT, the Deke and the Harvies had to be careful, 'Deke,' " he explained, adding "it was like an impromptu reparation."

"When the reports [submitted by the fraternity] pile up for a while, they're no longer required to do this," Sherwood said.

"We always force the first round of assignments so that all coed living groups have 25 percent women, but invariably some women put themselves in limbo," Sherwood said.

Sherwood observed that all the freshmen were for their acquisition of a house, Sherwood explained.

"First, part of the group was to live off campus to show they were serious about living together."

Although this has not occurred, Sherwood said, he believes that part of the agreement is null and void now that they are chartered in the national.

"Second, the percentage of women in all coed frats has gone up 25 percent, but we have not made any effort to attract more women. I would not want Alpha Phi dragged down by Beasley's inability to meet that requirement," he continued.

"We always force the first round of assignments so that all coed living groups have 25 percent women, but invariably some women put themselves in limbo," Sherwood said.

"I thought that the situation, Sherwood said.

"We've had a strong community service program, we take part in the blood drives and IFR [Freshman Information Room] cleanups."

Sherwood added, "We publicized it more this year, and stepped it up a little to follow good will toward the community, and the President, he added.

Kappa Sigma and Delta Kappa Epsilon (DKE) are on probation because of an ongoing battle between them.

The two fraternities have since improved their 'in-house judicial systems and community service records, he said.

"To say we're on probation is incorrect. We're on what's called conditional probation. We have to submit reports to the Deke's Office but no privileges are taken away and we are not watched more than anyone else," Mark Moore, an officer of Dekes.

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World

Surf's "up" — 2 tons of hashish, in 40 plastic bags labeled "sugar," was found floating in the ocean and washed up on the beaches last Saturday in Castellon, Spain. Officials said they believe the bags had been thrown overboard by traffickers intercepted by a coast guard patrol.

Nation

Top engineers start over $30,000 — The average starting salary for petroleum engineers graduating in spring 1984, was $30,306, according to the College Placement Council. Chemical engineers will earn $27,276 on average their first year out, while offers to graduating computer scientists averaged $24,048. Meanwhile, the average salary offer to humanities majors was $16,068.

Doonesbury to return in September — Garry Trudeau's syndicated comic strip Doonesbury will appear in newspapers beginning September 30, the Universal Press Syndicate announced. Before taking a leave of absence beginning in January 1983 to write a musical based on Doonesbury, Trudeau commented, "My characters are understandably confused and out of sorts. It's time to give them some $20 haircuts and move them out to the larger world of grown-up concerns."

Hates the cops, not the Olympics — The man who drove a car onto a crowded Los Angeles sidewalk, killing a teenager from New York and injuring 54 other people, said he did so because he "wanted to get even with the police," said his act had nothing to do with the Olympic Games. Daniel Lee Younger, 21, of Inglewood, a Los Angeles suburb, was on probation from a burglary conviction after an arrest by Inglewood police in April 1983.

American Socialists and Communists deride Ferraro selection — Andrea Gonzalez, vice-presidential candidate on the Socialist Workers Party ticket, and Angela Davis, vice presidential candidate on ticket of the Communist Party USA both claim there is nothing new about a female vice-presidential candidate. "Our party first had a woman on the ticket in 1948," said Gonzalez. "The Ferraro candidacy is another attempt to convince women and other victims of capitalist society that progress can indeed be won through the two-party system ... The only place where women are advancing in the Americas today is in Nicaragua and Cuba."

Sports

United States cops nine medals on first day of Olympics — US athletes won six gold and three silver medals in Los Angeles on the first day of the twenty-third modern Olympic games. In swimming, the United States won the men's 100-meter breaststroke, the women's 400-meter individual medley, and two golds in the women's 100-meter freestyle dead heat. Americans also took firsts in the men's 190-kilometer and women's 70-kilometer cycle races.

Weather

Nice except when it isn't — Sunny today and tomorrow except for a chance shower. Warm with highs between 82 and 86 today, slightly higher tomorrow.

Robert E. Malchman
Diana Lee-Avelos
and Simona L. Garfinkel

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Finding a living group and limits

One thing is certain at MIT: after a few years here, you will know your limitations better - life consists of compromises, no matter where you are - I offer these unpolished nuggets of thought:

How to choose a living group:
One of the services you will hear over and over before the end of Freshman Week is: "Choose a living group." You may hear it again and again, until you can go without calling home because of my parents panic.

Furthermore, I have just realized I am not going to be able to stamp all I have to tell you about Commodore where a kid gets kicked out of college because his parents did not buy him a computer. This commercially offered advice may well be your first encounter with computers.

"Choose a living group not for compromises, no matter where you are - I offer these unpolished nuggets of thought: "You can eat -. You can pay to use a computer. This commercial really offended me. Even if a Commodore computer could help you in college, no reasonable university would expect you to own one. There is no one over has a claim of being a computer; there are simply too many to count. There are computers for accounting, engineering, research, word processing, hacking and more things that can be listed in this column. They range from "smart" calculators to room-filling mainframes. Students are offered large discounts on Apple and Digital computers. Project Athena will give you all the computer time you can eat. You can pay to use a computer, or be paid. So what do Commodore computers fit in? Computer use is not open to other activities here. Too many consider think of MIT as consisting of cold, white rooms filled with mainframe computers and small, dingy rooms crammed with hackers-pelvis. While we do have a few such rooms, the majority of computers here is buried in labs and offices. Even the parishioners, friend - MIT people use computers. A computer should be a tool, not a god. An incredibly useful - but no more deserving of worship than a hammer. The only major difference between a computer and a hick is that a computer can work on a stored set of instructions and a hammer will just sit there. This appearance of life makes computers so interesting that people will use them for tasks that would be done better on paper. Students often fall into this trap of over-dependence. Computers can be selectively patient and scruffy and this sense of power makes them attractive to people because it offers them more control than they have in real life. Too many hackers turn to computers for the approval and respect they do not receive from their peers.

Computers are not alone in their seduction of the innocent. MIT has had self-absorbed students since Boston Tech opened its doors, and surely there were Greek tutors forced to reprimand their charge for delving too deeply into their studies. A good education must broaden your view of the world, not simply deepen it.

Fresmen come to MIT interested in mathematics and physics. This is not a new problem. For many, high school science has exposed students to traditional studies such as physics, chemistry or mathematics. They would come here interested in these fields and undergo their first major shock: High school science is not the same as professional practice. These disinterested students then find their places in other disciplines.

Electronics has changed this natural progress. Electrical engineers do not appear to see that that differently from the experienced amateur. Widespread availability of computers has accelerated this trend, as programming is still programming, no matter how experienced the practitioner.

A fresh man with fresh MIT after six weeks, claiming he could not teach him any more - he is now a high-priced consultant for several microcomputer firms. He may have been right, but he will never get the background he needs to write anything more complex than computer games and accounting software. Fresmen do not realize that there is a great difference between computer programming and computer science. Often, they realize it too late too.

I don't want to scare any freshmen or (their parents) who are reading this column, but if you know exactly what you need to learn, why come to MIT? Too many paths in knowledge run through the halls of MIT to describe here, but I suspect you will not require a Commodore computer. Keep an open mind and you will see the path for yourself. Do not restrict your vision with what you know, or with fears of what you have not yet learned.
Take the Institute one term at a time

Column/ Joseph L. Shipman

At this time of year it is tradi-
tional for columnists to give in-
curators a taste of accumulated wisdom. The wisdom I was pre-
pared to present when I was a freshman was that life was good, much was inevitable, and some things seemed simple and even dan-
grous. This column consists of the advice I received six years ago, but certainly not all of this may apply to you.

It takes a long time to figure out how this place works and how you can make the most of it. Here are some basic rules: Do not plan out your entire four-year schedule during your first week. On the other hand, by your fourth year, the simple fact is it is useful to have some idea of what you'll major in. Secondly, don't spend too much time wor-
ting about what classes to take, and only worry about one term at a time.

Lots of people will tell you not to overload yourself, but I say, on the other hand, take as many classes as you want, but don't worry about grades. It's possible to get straight A's here, or nearly so, in some of these courses than you're required to. Never, never, never drop courses, go to them all for a term. Sign up for several classes than an A in the under-

graduate version. The advice of this may apply to pre-meds, but only at the cost of making yourself suffer. Take one course in med school and be-


Choosing from MIT's menu

(Continued from page 4)

least some of the time whenever you are. There is a necessity for being human, and if a student is down, a place to cook for yourself, presence in the city, or a room of your own could make some difference during the traumatic freshman year, allow for it.

The characters of the dorms are not nearly as different as the people who write the residences hand copy would like you to think. Each living group has multiple sub-groups, some defined by the architecture (gymnasium, floors, and some more informal), and the character of these con-

stituencies can vary considerably within a single building. Make sure you know exactly where you are getting your imp-

ression of your chosen dorm from, and look carefully at the options within it.

The advice Jean-Josep Cost "If you've never considered them, how much more to do with them. You already know how to take care of your dorm, but don't be afraid to start something new. It's less expensive besides eating or run-
ing errands in the hours in be-

The Tech reserves the right to edit or condense all letters.

opinion

Letters to the Editor are written by members of the MIT community and represent the opinion of the writer.

Your MIT career is too short to do anything other than work hard. It is important to approach problems than to focus on the "cutting edge" or the "state of the art." Semicon-
ductor device designing processes can be turned upside-down in twenty years, but thermal and second-order linear homogeneous differences are far more relevant.

I hate algebra. I hate it now, and I hated it then. I don't want to commit myself to any one subject just yet. I wish I'd received six

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ter line and bear the authors' signatures. Unsigned letters will not be printed, and authors' names may be withheld upon request. The Tech reserves the right to edit or condense all letters.

WE ARE GRAIDED TO REPORT THAT ONE OF YOUR STUDENTS WAS RECENTLY HUNTING IN A CALIFORNIA MOUNTAINS.

"GUNS DON'T SIGN CIVILIAN PAPERS, AND DUCKS DON'T QUICK.

If you plan to major in the School of Engineering, you will want to choose a department as soon as possible and get an early start on the departmental re-
quirements, because there will be lots of them. If you want to ma-

ior in math or science, you can wait until sophomore year to make up your mind and still fit your major program into your schedule without too much trouble. If you are thinking of going into business, humanities, history, or social sciences, just start taking your humanities courses in the department you want to major in, and you can take your time getting there.

Force theory over applica-
tions. Expose yourself to higher math, quantum physics, wave theory, statistical mechanics, sys-
tems programming, public policy, writing, and other disciplines. It is more important to learn many ways to approach problems than to focus on the "cutting edge" or the "state of the art." Semicon-
ductor device designing processes can be turned upside-down in twenty years, but thermal and second-order linear homogeneous differences are far more relevant.

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Learn when to punt problem sets

(feedback)

Garfinkel mistaken in criticism of Ferraro

To The Editor:

This letter is in response to Simson Garfinkel's column (July 17 issue) on Geraldine Ferraro's merits as the Democratic vice-presidential candidate. First, I must confess two things: 1) I am from New York (although not Queens), and 2) I am not about to join the Ronald Reagan Fan Club. Naturally, this letter will be biased, although I'll try to refrain from being blunt-faced.

My first objection is to the first sentence, in which I would change "Democrats" to "politicians," for the Democrats are not the only ones to concern themselves with the backgrounds of their candidates. A recent example was Reagan's choice of Sandra Day O'Connor for the Supreme Court. When I heard about her appointment, my first reaction was "Who is Sandra Day O'Connor?" I didn't think that it was such a big deal that she was a woman, but evidently certain high-ranking Republicans thought so.

If that is not tokenism, then what is? I must admit that she functions adequately in her position, but was she necessarily the best choice, based on merit? In addition, she was appointed, and not elected to her position, which leaves some doubt in my mind about her merit.

Admittedly, Ferraro was not elected to her position as a vice-presidential candidate, but candidacy is not an office, and the final judgement lies in the hands of the voters. Perhaps it is true that our society has not reached the point where it can merely note that Ferraro is a woman, but the only difference between these banner headlines and those following O'Connor's appointment is that these headlines are much closer to life than problem sets, and to notice when you haven't slept for 36 hours. At these times, consider the relative importance of the assignments you have to do to each other, to your grades in those courses, and to your own well-being, and ask yourself: is this one really necessary? Then go out to a movie.

Don't miss out on student activities, either; they can be incredibly rewarding and there's such an abundance of them everyone can find a couple he or she likes. There will be times when you workload becomes extremely oppressive. Many times. It is important to keep a sense of perspective, to realize that there is more to life than problem sets, and to notice when you haven't slept for 36 hours. At these times, consider the relative importance of the assignments you have to do to each other, to your grades in those courses, and to your own well-being, and ask yourself: is this one really necessary? Then go out to a movie.

Advice about work habits, as everyone finds his own routine (I did most of my work between 1 and 2 am because I'm easily distracted and there was too much going on earlier in the evening). One indispensable thing to learn, though, is when to punt. There will be times when your workload becomes extremely oppressive. Many times. It is important to keep a sense of perspective, to realize that there is more to life than problem sets, and to notice when you haven't slept for 36 hours. At these times, consider the relative importance of the assignments you have to do to each other, to your grades in those courses, and to your own well-being, and ask yourself: is this one really necessary? Then go out to a movie.

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* NROTC at MIT has cross-enrollment with Harvard, Tufts, and Wesleyan.
R/O faces tighter budget

(Continued from page 1)

The lists were done unofficially. This year, the equipment is predetermined for availability and computer management will not accommodate, said Eisenmann.

"We're going to choose a mix of users, we're not going to have an operating system used on Project Athena cluster expanded," Lerman said. "At some point, we will begin giving accounts to as many students as we can, and undergraduates will have preference over graduate students," he continued.

Terminals will be upgraded

"The IBM product we're going to use when [the machine termi- nal]s are converted to PCs does not exist yet," said Lerman, adding that the terminal is currently "under development in the Advanced Function Work Station.

"For the DEC product, we will use a daisy chain [from] UNICOM line of computers," he continued. Additionalaken already have VAX stations, but they currently function only as output devices and input devices.

"We have software to make them into operating systems and operating system used on Project Athena input devices. It works, but it doesn't cost us anything," Lerman added.

"Finally, not only all the work stations will look like VAX stations. They will have big cathode ray tubes, just like VAX stations, and similarly sophisticated keyboards," Lerman said.

The swim test will be held Fri-

day, at the end of R/O Week, Eisenmann said. The test can't be taken in the morning, since the Johnsons have to attend the Interfraternity Con- ference to deal with this is- sue," he continued. Fraternity members may be charged for the lists or asked to leave to list their jobs, locations, including the Dean's Office and the Campus Police, Eisenmann said.

The R/O committee considered and rejected a proposal to charge living groups for copies of "The Tech." A September letter listing the rush events of ev- ery group, Eisenmann said.

"Adequate courtesy policies are a problem, but we decided not to charge this year. We may do so in the future, though," he commented.

Examinations scheduled

The writing examination will first be offered Tuesday after-
Not another pre-fteen fantasy

Careful He Might Hear You, directed by Donald G. Haagsma, starring Wendy Hughes, Robin Nevin and Nicholas Gledhill, rated PG. Careful He Might Hear You, based on a short story by John Wydown, is a children's mystery

The movie is outwardly "emotional," but in the beginning description but quite appropriate. Careful He Might Hear You, set in a rural town where a young boy is accused of murder, is a character study. The acting is competent, but the script is weak, and the story is predictable.

Careful He Might Hear You has won eight 1983 Australian Film Institute Awards, including Best Picture, and deserves the same honors in the U.S. I hope it will be released in time for the holiday season.

Ronald E. Becker

A strong offense is the best defense

Best Defense, Paramount Pictures, directed by Willard Huyck, produced by Gloria Katz, starring Dudley Moore, strategic planner and star Eddie Murphy, is a satire that skewers the military.

"I'm beginning to feel like a migrant worker," says one military official (October Moore), a down-on-his-luck lawyer who won a government contract to design a new weapon for the army. Dudley Moore plays a role originally written for Billie Jean King, and Eddie Murphy plays a role originally written for Madeleine, a cellist with the local symphony. Alas, Miles doesn't know a thing about computers.

The acting is comic, not dramatic. Characters change moods and opinions so fast you would need a score card to keep track. The writers seemed to think their job was to say something and keep them going in rapid-fire succession to have any effect. They should have allowed the movie an extra half-hour overall. The acting also seems to have given him a dramatic. Characters change moods and opinions so fast you would need a score card to keep track. The writers seemed to think their job was to say something and keep them going in rapid-fire succession to have any effect. They should have allowed the movie an extra half-hour overall. The acting also seems to have given him a

Steve Hanft
A little something for everybody in Street Theater

Street Theater, written by Doric Wilson, produced and directed by Alan Duibroc, at Kress Little Theatre this Thursday through Saturday at 8 pm; tickets $7.50 students, senior citizens.

Fifteen years ago this summer, the New York City police conducted a routine raid of the Stonewall, a Greenwich Village gay bar. Things did not go as planned for the men in blue, and the raid turned into a bloody riot. This spontaneous rebellion against the constant police harassment of homosexuals prevalent at the time marked the first time gays publicly fought back against societal repression of their sexual preference and lifestyle, and ultimately paved the way for gay activism movement.

Street Theater is loosely based on the events of that hot full-moon Friday evening of June 27, 1969. The play follows 14 fictional characters wandering their way down notoriously gay Christopher Street immediately prior to and during the riot. Although the Stonewall itself is not included as a part of the audience, no-fills set vary (worry, you won't get to see much hanging and violence here), it is still very much in evidence hiding in the shadows just off-stage.

Author Doric Wilson has infused Street Theater with a wickedly sarcastic and cynical wit — members of repressed minority groups can often see common themes of their situation even as it lurks behind the hurt. Some of the play's jokes might not hurt. Some of the play's jokes might not

Michael Rini plays Jack, a macho leather-type who seemingly defines conventional gay stereotyping — he doesn't tip, his wrist isn't limp, and there is no ring gracing his pinky finger. C. B. (Robert Gloria White), Jack's Harley mechanic, is older and wiser than most of the other characters, but he's not above wanting to make him one of the Stonewall's best customers.

Cell (John Spellman) and especially Boom Boom (Paul Everett) steal the show with their campy portrayals of screaming drag queens. Cell comes off as a human intellectual, has a vocabulary that would put a few dyke stereotypes.

Street Theater is polled by not one, but two members of the vice patrol. Seymour (Geoff Thomas) and Donovan (David Albro) spend most of their time trying to entrap the other characters in sexually compromising situations. Seymour, who is on the take, is the ideologue of the pair, but Donovan demands half the action when he discovers his cohort's illegal income amounts to several thousand dollars per

Heather (Cyndy Norman) is a trippe-runt flower child, a product of the New Jersey suburbs, and quite an artist if the aforementioned freckles is any indication. Timothy (Brian J. Akin) is the perfect little preppy boy, vacillating with his parents in the big city, who has gone down to Christopher Street to "find the voice." Murfino promptly hires him as a go-go dancer for the Stonewall, outfitting him in a gold sequined G-string.

Sidney (understudied by Raymond Gamache), a trench-coated, rangy intellectual, has a vocabulary that would put William F. Buckley Jr. to shame. He isn't really gay, he maintains, but a "homosexual on a temporary lease of absence" — although his subtext was long enough to make him one of the Stonewall's best customers.

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Siggraph '84, the annual convention of the Association for Computing Machinery's Special Interest Group on Computer Graphics (SIGGRAPH), Minneapolis, July 23-27.

For those involved in computer graphics, add-ons, and software, Siggraph is the single most important event of the year. For one week, the field has lately been em- phasizing usability and user-friendliness, both of which have always been important to Hewlett Packard. Siggraph has always been the forum for innovative new graphics hardware. Houston Instru- ment showed off their new color-video terminal, which sells for under $600. This plot- ter, like many of the others, scrools the paper while moving the plot head at right angles to the direction of scrolling, rather than moving the paper. Digital demonstrated their new ray-tracing capability for both of their Professional 350 minicomputer. It never- theless showed the program running on tators of a thousands of an inch on the display.

On the lower floor, smaller firms ped- dled peripherals, add-ons, and software packages. While most of the equipment on the lower floor didn't look as well-crafted as its counterparts upstairs, there were ex-ceptions — companies that didn't need the space of the larger upstairs booths, or that were just starting, and all for sale in floor space. The Texas Instruments booth was on the lower level, echoing their move to a smaller space. The Texas Instruments booth was on the lower level, echoing their move to a smaller space. The upper floor was occupied by in- dustry giants like Digital and Magnegem, some selling state-of-the-art high-perfor- mance systems, from the atomic scale to the universe, published by Poseidon Press, $9.95.

Devices like these exemplified two of the main themes of the convention: computer- aided design and computer art. Some of these systems looked so much alike that it was necessary to ask the manufacturer whether the program was intended for artists or engi- neers.

But the real action was in three-dimen- sional graphics. Some systems achieved true depth on the video screen with special glasses or other viewing devices. Other sys- tems faked three dimensions with inter- nal or rotating motors for "depth cueing," giving an impression of spatial claxy Research outside everybody in the field with a six-foot computer-generated hologram of a car. A curtained booth with entrance and exit at right angles en- couraged viewers to walk around the holog- ogram. Other companies had displays that gen- erated three-dimensional solid graphics so fast the images could be rotated in real time. At one end of the spectrum were Raster Technologies and Megatek systems costing over a hundred thousand dollars and at the other was Atari's latest video game, "Jibber, featuring solids-modelling graphics and incredibly fast animation for twenty-five cents a plan.

One of the neat things about the show was the people. Most salesmen knew that they just wanted to show off what their company had done. They wanted to talk about graphics, about what the computer community should be doing, or about the role of government and defense in the in- dustry. They want to demonstrate their ability to outshine the competition; they were commu- nicating with the competition.

The Electronic Theater

One of the biggest draws at Siggraph conventions is the Electronic Thes- ter," a presentation of computer anima- tion and video art. This year, the Elec- tronic Theater filled two evenings with over 70 works, typically three to eight minutes long. Many hours of com- puter time were spent to generate each frame of a five-minute short. Other films showed what could be done with hardware in real time.

The works presented fell into three main categories: quick demo tapes from compu- ter-simulated commercial; highly pol- ished shorts demonstrating new display al- gorithms; and artists' forays into the realm of computer graphics masquerading as art. Occasionally something clicks between the artist and the computer, and the product is not only good computer graphics but good art. Unfortunately, this seems to happen only rarely.

All the advertising graphics were well- edited and technically slick. Coming from all over the world — Brazil, England, France, Italy and the United States — these reels showed one of the major appli- cations today of computer animation and video art. This year, The Elec- tronics Industry showed what could be done with hardware and software in real time.

For those more interested in graphics than content, "Martian Magnolia Day in the Life of..." (John Marpessa, Sandia National Laboratories, Albuquerque, New Mexico), depicted a surrealistic planet on an alien landscape being circled by a flying saucer. The flying saucer changed from chrome, (with reflections), to fine crystal, (with refractions) "Martian Magnolia" was an excellent demonstration of the lat- est ray-tracing and texture mapping tech- niques.

"Digital Fantasy" was an entry from France, which sold for under $600. This plot- ter intended to be mean- ingful and enlightening but only served to detract from an otherwise marvelous show.

On the other side, "Wag the Flag," (Charles Kesler, Southern Software, Greenville, North Carolina), intermixed mechanical and electronic video with very creative editing. "Wag the Flag" was an example of how computer graphics can be used to emphasize ideas, rather than distort them.

For many, the Electronic Theater was New York Institute of Technology's entry. It was a ten minute segment from a full-length computer mov- ies they've been working on for the past five years. Perhaps it will never be finished; with the detail of the presentation, no wonder it's taking them so long.

Many of the technically excellent graph- ics used a technique known as ray-tracing, in which every pixel on the screen is gener- ated by following a single imaginary ray of light. While this requires an incredible amount of computer time, it brings us closer to the most realistic graphics. There were three times as many examples of ray-tracing this year as last.

Of course, the only problem with watch- ing computer animation in real time is that you wake up the next morning and say, "Look what they've done with those clouds and trees!" Of course, that is the whole lure of computer graphics: to make a reality as fantastic and as detailed as our own.

Simpson L. Garfinkel
Mozart's eternal lesson in love through music

The inner Mozart lay hidden, disguised. We can only approach an awareness of his genius far beyond the limits of the musical and theatrical forms in which we may come to know him, as it is in the fan tute of our personal, almost deeply talking and profoundly touching. Like his composition, Can't's truth lies beyond immediate appearance: they are mutual in his music.

Not all have reacted this way. Through much of his music, he has regarded as tasteless, even disgusting. The Mozart of his day as carnivalist is a fact of life. As carnivalist, the public's attention to Mozart's operas often resulted in a sense of responsibility. We need to be more interested in the face of Fidelio. Fernandez is something of a pas- sionate dancer, while Guglielmo is a young boy.

As the opera we are Fervently pressed with. Fernandez is a fine, strong, and true musician. The artificial way the men behave towards one another may not give us suspicion of the naturalness of their actions. They may not declare it on the face of Fidelio, but they do it with their music. The opera remains very unreal as the whole world beholds the music.

But, as William Mann points out, "Miseria's" opera is not the work of a great composer. It is the work of a true master who can do poorly with anything. The whole world of music is in the hands of the true master, indeed because of it, nothing is in the hands of the true master.

The rules of the game change when Guglielmo sings "E chi v'用餐. Come si scoglio in guerra."

The acting and singing are the best, although they are the weakest in the musical. It is a shame a group with so much technical wizardry can do so poorly with an album that had so much potential. Better luck next time.

Simona L. Gargiuk

Turbines drummer Fred Nazzaro performs at the Throbbing Lobster record release party last Wednesday at the Channel. Tech photo by Stephen A. Brotot

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Turbines drummer Fred Nazzaro performs at the Throbbing Lobster record release party last Wednesday at the Channel. Tech photo by Stephen A. Brotot
The MIT Musical Theatre Guild presents

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Jonathan Richmond

Ungashed portrait of Mozart by Joseph Lange, painted about 1782

The seats were wooden and hard; the opera continued four-and-a-half hours, until midnight, but the audiences sat motionless, unable to escape the spell cast by seductive woodwinds and enchanted strings.

The words may have been in Italian, but everyone knew what was happening as Fiordiligi and Ferrando entered, following Soave si dono, daggers of danger drawn in the music.

The development of Mary Shearer’s Per- pierre told the whole story of Fiordiligi. Singing with great depth, and da capo repetition awe-inspiring, we saw Fiordiligi emerging from shadows of doubt, suggestive horses lifting up her heart, a triumphant conclusion to announce that Fer- rando would be hers.

Glenn Siebert made as noble a Ferrando as could be wished for. His vocal talents showed considerable breadth from an ex- tremely lyrical Un vero amore torn to a broken rage in Tradizio scemrino.

Pasquale Berman was sweet and saucy as Despina, John Ostendorf a characterful Alfonso. And the real dramatic weapon, Mozart’s music, was played with a serene

Mozart's music

(Continued from page 12)

psychological drama which the most elaborately-staged production would find hard to rival.

I have just listened to Cosi far our last year, I believe again the scene and the role and kindness hard... The air is so soft that one has only to breathe it in order to be happy. On the stage, there is a two Italian comptains who write and together for an en- arar; one on a bath and ever one happier, we enth all the more; even tears are neighbors to a smile. When his- icles are enough to be taken. And his scenes are less with goodness.

— Hippolyte Taine.

The cast was marvellous, and each contributed to the many trixes of the evening. D’Anna Fortunato (Dorabella) and Mary Shearer (Fiordiligi) sang Snow si dono rapturously, their voices carried aloft on a balmy breeze of woodwinds and strings.

Donizetti’s sensibility by an orchestra whose conduc- tor knew that a violin could tear any heart string, a flute capture any emotion, and the music of W. A. Mozart by itself tell any story. Although there are no further perfor- mances of Cosi fan tutte at the Monad- nock Festival, it will be presented staged at Castle Hill in a production directed by Pe-

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Jonathan Richmond

TUESDAY, JULY 31, 1984  The Tech PAGE 13
A GOOD TIME at pi lam is a SAFE BET!

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Tuesday, July 31

**GAMIT**

Greetings, and welcome to MIT. GAMIT (Gays At MIT) is one of the many extracurricular groups that exist at MIT to serve the needs of the MIT community. Whether you are lesbian or gay, straight, bisexual, uncommitted or unsure, GAMIT has activities that may be of interest to you.

Every Sunday at 6:00, we have group discussions with topics ranging from "Gays and Religion," to "Expectations in a Relationship." On Thursdays, the GAMIT Lounge is open from 8 to 11 pm for informal conversation, munchies, card games, or just a place to relax. At various times during the year we have special activities such as dances, ice cream socials, end-of-term parties, and gay/straight raps.

GAMIT also provides education and information. For example: It is surprising, but in the United States about one-tenth of the population is gay. Gay people exist in all walks of life, including, of course, science and engineering. Unfortunately, there is much misunderstanding and fear directed at gay people. GAMIT is working to ease this misunderstanding and fear at MIT by discussing topics at some of its living groups and by providing a Contact Line where anyone may call to ask questions about homosexuality or about being lesbian or gay.

If anything here has sparked your interest, there will be many opportunities during R/O Week to meet people in GAMIT. When you arrive at MIT you will see our table in front of the Student Center: stop by and talk. Or, if you prefer a quiet setting, we will be having a luncheon for new students on Thursday, September 6, in room 114 from 11 am to 2 pm. Another opportunity will be a discussion meeting on Wednesday, September 12, from 7:30 to 10 in the GAMIT lounge (50-306). This meeting will be especially for new members of the MIT community. If you have any questions, don't hesitate to call us on our Contact Line at (617) 253-5440.

Once again, Welcome to MIT.
Robots raise social issues

(Continued from page 1)

Berlin said. Robots might also be used as tasks or atomic vehicles, or computers employed as sea battle managers to keep track of deployment of friendly and enemy weapons, he added.

"The decision to build a mechanized army represents a dangerous qualitative increase in the arms race," MIT professor of electrical engineering and computer science Joseph Weizenbaum said at the demonstration.

Carrying signs reading "Intelligent machines aren't," "Computers for life, not death," "Trust people, not machines," and "We need a smart president, not smart bombs," the picketers marched for an hour beginning at noon, with a break for a speech from Weizenbaum.

The purposes of the demonstration are to call to the attention of our fellow professionals that there are social issues, societal issues, involved here, and to point out to people that very large computer systems are warehoused," Weizenbaum explained.

"I am concerned for the insane waste of human talent, not to mention vast capital, to develop faster, more efficient, more professional ways of killing," said Weizenbaum.

"We are talking here about killing thousands, millions of people in one stroke, and that's not how we like to see our technology used," he added.

If "we were a general or an admiral, I would be worried that my weapons systems were an illusion, that they wouldn't work in real situations or that we wouldn't predict real situations. So I would be concerned whether I was a hawk or a dove."

"If we believe use of autonomous weapons shortens response time and makes it less easy to avoid nuclear war," said Berlin.

Those in favor of autonomous weapons say humans will not have enough time to respond in an emergency. We say that's lie," he explained.

"We know humans make mistakes, and we allow for that, but people have the illusion that computers don't make mistakes," Weizenbaum commented.

Weizenbaum cited the 1965 power blackout on the East Coast as an example of computer error. "That complex system worked for years and years and then suddenly failed," he explained.

"Lots of people have been led to believe that artificial intelligence is here and whatever tasks you give computers, they can do them. But computers are left alone and they don't work all the time. When they do, they can only do "toy" problems, limited way behind what a four or five year-old child can do," Weizenbaum observed.

"We cannot turn the decision to kill or not to kill over to computers. That is like putting a drunken general in charge of an army," said Weizenbaum. "If we have to use words like 'killing' here, we have to use words like 'snoozeball,' " he continued.

Protest against arms research is especially important at MIT because "not only do scientists and technicians work at MIT but important scientists and technicians of the future are trained at MIT," he observed.

"Clearly it is up to the scientists themselves to choose not to work in the laboratories of death," Weizenbaum said. The military presently provides half of all funding for advanced computer research, Berlin observed.

"Our feeling is that installing unreliable equipment won't really save lives and will waste money and talent that could be spent on more socially useful projects, like education," Berlin said.

Conference leader Whelan came out of the hotel to watch the demonstration. "I agree with what they're saying, but there's another side: you can't control human error. There are no foolproof ways of reasoning," he said.

"What I'm concerned about is that there should be a debate [on autonomous weapons], and I feel it's going on upstairs in part of the debate," he said.

Conference leader Whelan believes in a debate, and I think that's the most you can ask from someone in high tech," said Dan Carnese, one of the demonstrators and a member of Computer Professionals for Social Responsibility.

"I think we can distinguish between the defense and larger issues, and we're addressing the larger issues," Carnese said.

Sorority seeks building for chapter residence

(Continued from page 2)

through dorms, particularly Random Hall, Senior House, East Campus, and Beta, sorts "anachronistic and radical" to freshmen and look like "bad eggs," said Schofield.

"Alpha Phi is different from most of the other Greek-letter [fraternities] in that they are all women's living groups," Schofield said.

"Alpha Phi is trying to rush during B/O Week might cause a difficult situation for some women. You can't hold membership in two national Greek-letter [fraternities] at the same time."

"If a woman pledged, say Delta Phi (Number Six Chi, which is a national fraternity, and later decided she wanted to be in Alpha Phi, she would have to drop Delta Phi first, and that could cause problems," Sherwood said.
comics

Outside Looking In By V. Michael Bove

and color relation give these works a unique visual appeal. Images of Change, fifty color photographs by Clinton Andrews presenting a subjective view of the issues and technologies bringing change to northern areas of Pakistan and India. 265 Massachusetts Ave. Monday-Friday 9 am to 5 pm. Free.

Listings

Student activities, administrative offices, academic departments, and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in The Tech's "News" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, The Tech, room W20-483," or via US mail to "News Notes, The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139." Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. The Tech reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

Saturday, August 3

Summerfest '84, an arts, crafts, and entertainment festival will be held at Buckingham High School, 43 Crescent Street, Brockton. The gathering will feature a printed award art show; a pet show, a horsetrack event, free-jumping, workshops and demonstrations, performances from mime to break-dancing, and ethnic food stalls. Call 580-7579 for information about attending or participating.

Ongoing

The following exhibits are being held at the MIT Museum: A Bunch of Electrics: An MIT Electrical Engineering retrospec- tive, a celebration of the centenary of the Electrical Engineering Dept. Included are the Bush Differential Analyzer and the Edison Dynamo given to the Institute by Thomas A. Edison in 1887. Math in 3D Geometric Sculptures by Morton C. Boud- ley Jr., digital sculptures based on mathematical formulas. Form

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Project Athena
Students are being sought to train for operations support positions (12 hrs/wk) this fall. Some summer work available.
Come and talk at 10:20 on Thurs. 8/2/84 3:30pm (yes, there will be goodies).

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Class size is limited, so don't delay. To register, or for more information, call (617) 237-1829 or (617) 329-8000.

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**MIT Equipment Exchange**

Open Mon., Weds., Fri., 10 am - 1 pm. Located in MIT building NW30, 224 Albany Street. Offers surplus equipment and used materials constantly. Missed lessons, extensive, with I.D. Members free. Guided tours available by reservation at $1.50 per person for groups of 10 or more. For further information, call 459-3133.

**Graduate Student ID cards (ISIC) are now available in the Office of Career Services, Room 12-170. The ISIC is an invaluable asset to the student who will be studying or travelling abroad. Foreign students holding F-1 visas are also eligible for the ISIC. For more information contact: Marianne Carla, Foreign Studies Coordinator, Office of Career Services and Professional Advising, Room 12-170, ext. 3-755.**

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**ATTN: CLUB PRES'S.**

The following exhibits are ongoing at the Hart Nautical Gallery:

- **MIT Sea Grant, a review of MIT Ocean research, Ship models, a historical view of the design and construction of ships: and The Engineering Wizard of Bristol: Nathaniel G. Herreshoff, plans, half models, equipment, and photographs documenting the renowned yacht designer's application of engineering skills to ship design. Building 5, 1st floor. Monday through Friday 9 am to 5 pm. Free.**

- **200 archaeological treasures from Israel, the result of recent excavations on land and in the waters off Haifa's coast, are being displayed in a major exhibit, "Crossroads of the Ancient World: Israel's Archaeological Heritage" from May 1 through July 31, 1984 at the Harvard Semitic Museum, 6 Divinity Avenue, Cambridge. Museum hours are Monday through Thursday 11 am to 5 pm, Saturday and Sunday from 1 pm to 5 pm. Admission $2.50 per person, $1.50 senior citizens, children under 12, and students with I.D. Members free. Guided tours available by reservation at $1.50 per person for groups of 10 or more. For further information, call 459-3133.**

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**DEADLINE IS FRIDAY, AUG. 3rd. Call Cathy or Anne at the GSC, x3-2195.**

**Harvard Cooperator Society**
WE CANNOT look far into the future. We cannot tell what buds of genius may be unfolded in these columns. But even if genius does not bloom; even if the beauties of rhetoric and poetry are not developed here; even if this paper becomes, like the school it represents, only a field for plain honest work — we shall nevertheless be sure that the efforts we make are stepping stones to further attainments, helping us all to the higher and nobler uses of our lives.

The Tech
Volume 1, Number 1
November 16, 1881

Since 1881, The Tech's news, sports, arts, and editorial departments have been known and respected not just at MIT, but across the country. But the fact that we have all that tradition behind us doesn't mean we're content to live in the past.

Our electronic newsroom, with text-editing terminals which connect to the digital phototypesetting equipment in our state-of-the-art production shop, is the most advanced editing and production system in use by any college paper today.

Reporters type in and revise their stories on computer video terminals. When they're finished, the stories are instantly sent to the departmental editors, who do further editing. Finally, the text goes to our production department, where it's laid out and phototypeset.