A panel discussion titled "Obstacles to Anti-Ballistic Missile Defense in the Soviet Union and Their Implications." Carter spoke along with Alexander Flax of the Institute for Science Analysis, Gerald Yonas of the MIT Defense and Arms Control Studies Program, and Russ Benge-Ambrogi of Undergraduate Student government (USG). The speakers discussed the history and future prospects of anti-ballistic missile (ABM) technology in the morning session of the conference, chaired byProvost John M. Deutch ’61.

Approximately 500 faculty, students, and visitors filled 20-250, the forum which was sponsored by the Undergraduate Student government (USG), the MIT Defense and Arms Control Studies Program, and the statue of a globe, introduced himself as Executive Secretary of the Student Association of Students and Teachers (SUASTA).

Carter distinguished between the needs of SDI and the needs of SALT. "Star Wars II" was the belief in the possibility of an impenetrable defense which would remove the threat of nuclear devastation, but an "evolving" level of technology not based on the "static" standard of ABM technology, Carter cautioned. A conflict of "Strategic Defense Initiative versus Strategic Offensive Initiative" could appear as each side escalates defensive measures and offensive countermeasures. Carter distinguished between the SDI needs and the SALT needs. SDI needs are for a "perfect shield" that can stop any missile, whereas SALT needs are for a "reduction in nuclear forces" that would make a "greater emphasis on defense than on offense." Carter emphasized that current SDI research is "driven" by the need to overcome possible countermeasures. Researchers, data collection and processing are the most important research efforts because "you can't intercept them if you can't find them." The "visibility and religious ferocity" of SDI is widely applicable, he said.

Research in this area would take place even without SDI, he added. The "layering principle," a concept that has been made as nearly perfect as desired, is not perfect. The "layering principle" is not perfect because it depends on the effectiveness of each layer. The probabilities for a missile to pass through the different layers are not independent and cannot be compounded, he explained, so if one layer collapses, you're screwed in layer two. Carter was uncomfortable with the "visibility and religious fervor" accompanying SDI. The emphasis SDI has received is not the usual way we do business and "doesn't seem reasonable," he said.

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Simones named Secretary of Institute Corporation

By Irene Skirick

The MIT Corporation elected MIT Vice Chancellor and Provost Benjamin W. Simonides secretary of the Corporation at its annual meeting Oct. 4. He will take up the position of secretary while remaining vice president and provost of the Institute.

Simonides replaces Vincent A. Fuller, who retired June 30. Fuller was at MIT for 34 years and during that time did excellent work in a lot of capacities," Simonides said.

Four officers — the president, chairman, secretary and treasurer — will be elected by the Corporation. Simonides will execute as secretary of the Corporation, who the programs we hand at trustees.

Simonides has been on the executive committee of the Corporation for the past ten years. The two-year terms of officers of the Corporation and secretary of the executive committee will now be staggered into one position. "MIT does this consolidation in the interest of some way it makes the top administration a little thinner and in some ways it facilitates the work," Simonides said. "And it also gives the opportunity for some younger people to grow in responsibility in their area."

Simonides was appointed to the Corporation meets quarterly to approve appointments, the secretarial agenda and provides a liaison between the Corporation and the executive committee. The secretary arranges relations with the trustees are volunteers," explained Simonides. that we provide them with the kind of assistance required to make their volunteer efforts worthwhile on behalf of the Institute efficiently."

"I want to help the MIT will advise the MIT administration to include three members of the Corporation Dr. David students nominated by the President. Simonides has been on the Corporation and will advise the MIT administration to include three members. The secretary is additionally responsible for the visiting committees to the Corporation, one for each department."

By Alison C. Morgan

The Minority Development and Support Luncheon, held Saturday in the Black Students Union, brought diverse minority groups together to discuss concerns and to advise MIT of the Corporation. Simonides said that "minority groups should be represented in all aspects of MIT in an equal manner."

"There is a priority problem, said Simonides, "in more than half of the minority groups showed a readiness to exist." The group was composed of ten students, organized by the Institute as a whole, and included the following:..."
World

Fifty passengers killed in rescue of hijacked airliner — Ten minutes after Egyptair Flight 648 took off from Cairo on Saturday afternoon, hijackers gained control of the plane and forced the pilot to fly to Malta. Egyptian special forces assaulted the plane, and the hijackers retaliated by throwing hand grenades at the passengers. When the dust cleared, all of the four or five hijackers were "most probably" killed, along with 50 passengers, according to a spokesman for the Maltese government.

Reagan Administration supports Egyptian action — The United States yesterday announced its support for the "difficult decision of the governments of Malta and Egypt to end the brutal terrorist hijack- ing," in a State Department release. The State Department also regretted the heavy casualties resulting from the Egyptian troops' assault. "We are saddened by the tragic loss of innocent life resulting from this act of terrorism," the statement read. The State Department was unable to confirm reports that one of the three Americans on board died in the shooting.

United States accuses the Israeli government of espionage — Israeli government officials denied any knowledge of covert operations against the United States and is investigating whether any such actions occurred. The Foreign Ministry did not rule out the possibility that an Israeli intelligence agent, acting on his own initiative, might have undertaken a spying mission against the United States without informing his superiors. Such missions against the United States violate Israeli government policy. The accusations arose according to a spokesman for the Maltese government.

Tenth anniversary of Franco's death marked — Francisco Franco, an embattled dictator, was assassinated on Nov. 20, 1975. The Tenth anniversary of his death is marked today.

Nations

Majority of American Catholics disagree with the Vatican -- A New York Times/CBS News poll indicates that the opinions of Catholics are more in line with those of American non-Catholics than with Church leaders. The poll, taken to test attitudes in the United States as the Vatican is holding an extraordinary assembly of the world's bishops, indicates that 68 percent of those surveyed favor artificial means of birth control, 55 percent approve of abortion in the event of rape, incest or a threat to the life of the mother, 52 percent favor the ordination of women as priests and 73 percent favor remarriage for divorced couples.

Regan apologizes for sexist remark — White House Chief of Staff Donald T. Regan apologized for his comment that most women don't understand arms control or other summit issues. He repeated, however, that the women are more "in tune with things of nature" than the "s'ity-girly" issues of arms control.

Local

Middle East Studies Association condemns Harvard — The Middle East Studies Association of North America has condemned Harvard University for allowing the Central Intelligence Agency to fund a professor's research. By accepting CIA money, Harvard has violated the Association's resolution that refutes the disclosure of funding sources.

Sports

Jets avenge early-season loss to Patriots — The New York Jets, playing without the injured Freeman McNeil, took sole possession of first place in the AFC East division after beating the New England Patriots 16-13 in overtime Sunday at the Meadowlands. A Tony Franklin field goal with 16 seconds left to play in regulation tied the game for the Patriots, but Kurt Sohn's 46-yard punt return set up Peat Leahy's game-winner in overtime Suneday at the Meadowlands. A Tony Franklin field goal with 16 seconds left to play in regulation tied the game for the Patriots, but Kurt Sohn's 46-yard punt return set up Peat Leahy's game-winner in overtime Suneday at the Meadowlands. A Tony Franklin field goal with 16 seconds left to play in regulation tied the game for the Patriots, but Kurt Sohn's 46-yard punt return set up Peat Leahy's game-winner in overtime Suneday at the Meadowlands.

Weather

Stay indoors for Thanksgiving — if you're stuck in New England — Wednesday will be cold and cloudy, but the rains will return just in time for Thanksgiving. Friday might be slightly better.
Ocean provides a new perspective

A few weekends ago, I decided to try treading the white sands of a Maine beach instead of the concrete of Boston. I've spent most of my life in cities and the Midwest. I wasn't prepared for the ocean.

The beach was empy, a short expanse of gritty, white sand ending in jagged rock on both sides. It was like seeing E. B. White might have described. There were no footprints on the beach, except mine. Broken shells and dead seaweed lay strewn across the sand. Occasional red sea urchins, spines still intact, colored the sand.

I walked with ease along the edge of the ocean as the water approached my feet. The waves were tame, imposing a blanket of silence on the beach. The screeching of the seagulls broke the quiet. The wind died down. I squinted at the line of reflected sunlight on the ocean. I looked down into the war-scarred faces of the rock below me.

The rocks stood at the mercy of the wind. Often in the city, it is very hard to see past the office-buildings to the sky. The wind would change their direction, side forces will change these markings, change their direction, erase their testimony. The deep, gnarled roots of the trees, spines still intact, colored the sand. Occasionally red sea urchins, spines still intact, colored the sand. Occasional red sea urchins, spines still intact, colored the sand.

The wind died down. I squinted at the line of reflected sunlight on the ocean. I looked down into the war-scarred faces of the rock below me. The rocks were weathered, not by man, but by nature. Each telltale crack crept through the rocks following its own path. Nature had formed each path. History, art and music: man's marks, marks of the finite. Even on the rocks, these markings can be erased, shiny new ones changed. Ocean forces will change these markings, change their direction, erase their testimony.

I scrambled up the small uplift of rock at the end of the beach. My feet sank into the cold rock. The cracks and crevices spread everywhere, like the gnarled roots of an old tree. Little lines as fine as those on my palm coursed the rock in an aimless maze.

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Often in the city, it is very hard to see past the office-buildings to the skyscrapers. Sitting on the rocks, looking out at the ocean, I could see a long way down.
Guest Column/Mark McDowell

Do not lose sleep over Course XIX

Ogden Nash once wrote "Some women talk too much, and some women pray too much, but all women think they weight too much." This observation on human nature has a perfect analog at MIT: "Some people study too much and some people goof off too much, but all people think that they sleep too much." This blunt statement by the great poet that Mr. Nash had in mind, I think these words ring true for any self-empowering MIT student. There seems to be a prevailing attitude (especially at this late date in the term) that sleep is a non-essential component of life. It is not uncommon to see walking down the infinite corridor and through the halls of Olin Hall and those that goes something like this: Jim: I was up until 4 am working on a problem set, and I didn't even finish it.
Jill: You call that late? I was up until 6 am writing a paper and studying for exams.
Bill: Yeah, but I pulled eight all-nighters this week, and...
Jill: What does it all mean? I think that Jim's depression is not the primary concern of the MIT community. In living a graduate student's life contributes enormously towards the elevation of the quality of life of its inhabitants. Its importance cannot be overemphasized, nor does it call for a pandemic of concern. In Ashdown, for example, is not merely having a place to sleep or a pitiful nights of sleep, dream theory and sleeping through more than one lecture in a row. It is much more than that. It is a shared bed, a common dream and society, not merely having a place to sleep in between visits to the lab. Lab courses cannot teach one about its operation and in an undervalued manner, and understanding and "brings to peace.

The show was launched by a vocal minority of audience members who saw no opportunity for dialogue, but only a chance for political rant and some red-bashing. It displayed contempt for authority in the highest US tradition by speaking (and often shouting) out of turn, stripping from the conversation the pleasantries of the far-from-tactless moderator. Dr. Aris Bernard of the Disarmament Research Institute, UN

The immediate response is that the problems take up too much time and are not worth the effort. Or maybe we think that we need to have a huge work load and that sleep is just not important. Of course, one also seems to be studying, so we just stay up all nights, working and taking lengthy study breaks. Maybe I'm just totally wrong.

To the Editor:

On midsummer night, a respectable crowd gathered in the Student Center to deliver "the Soviet view of America to the Soviet government. The display was not provided by the visiting Soviet delegation, which had come to discuss, however dogmatically, and unilaterally, the "Soviet viewpoint" of obstacles to peace. The display was provided by Mr. Nash, who saw no opportunity for dialogue and some red-bashing. It displayed contempt for authority in the highest US tradition by speaking (and often shouting) out of turn, stripping from the conversation the pleasantries of the far-from-tactless moderator. Dr. Aris Bernard of the Disarmament Research Institute, UN

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Mary lacks grace

Hat Mary, directed by Jean-Luc Godard, is a film that does not have a traditional script. Instead, it is a series of conversations and monologues delivered by various characters. The film is a commentary on the French Revolution and the role of women in society. The main character, Mary, is a symbol of the revolution, embodying the spirit of liberty and equality. However, the film suggests that Mary lacks grace, a quality that is essential for the success of the revolution. The lack of grace is represented by the character's inability to connects with others and her constant state of confusion and disorientation. The film ends with a scene of Mary's death, symbolizing the failure of the revolution.

Civic civil

The civic civil is a term used to describe the active participation of citizens in the democratic process. It involves voting, volunteering, and engaging in public discourse. The civic civil is essential for a healthy democracy, as it ensures that the government represents the will of the people. However, the civic civil is often neglected, as many citizens feel disconnected from the political process. The film Mary suggests that the lack of grace in Mary is a result of the failure of the civic civil. The film encourages viewers to engage in the civic civil and to stand up for their beliefs.

Pro Arte molto

The image shows a page from a magazine with the title "Pro Arte molto." The page contains a variety of text and images, including a quote from Michelangelo. The quote reads, "I am not a sculptor but a sculptor of souls." The image also includes a black and white photograph of a sculpture, which appears to be of a religious nature. The sculpture features a figure with a cross on its chest, suggesting a connection to Christianity. The overall theme of the page seems to be related to art and religion, with a focus on the concept of the soul and its importance in the artistic process.
Great songs for mad king

Serkin striking

Rudolf Serkin, Symphony Hall, November 21

Rudolf Serkin's Song 85 has no regular effect. His variations on 'Habanera' were in this case cognition, but Serkin's starts small and grows over the course of one movement; the other was a dramatic way of showing Serkin's technical virtuosity. As he performed it grew, and the audience was impressed by the way he controlled the music. Serkin's performance was almost a concert in itself.

Choral notes

The MIT Choral Society, conducted by Anna Boldra, performed at Symphony Hall, November 21. The Choral Society is a group of 120 voices, and the performance was well received. The choir sang with excellent vocal production and wide dynamic range. The concert was a great success, and the audience was enthusiastic.

Graphics by Bill Codere
To the Editor:

While I usually read the feed-
back section of The Tech with a
measure of indifference, on this
case I feel compelled to re-

To respond to the letter of John Pi-
trelli and Kevin Theobald ["SDI
ensures our retaliation," Oct.
22], I advise a response to Alan
Zarawatski's guest column ["SDI is impractical and fatally
flawed," Oct. 18]. For while they
correctly point out some logical
flaws of Zarawatski, they them-

selves make some serious errors in
reasoning.

They state "the intention of (SDI)
that a high attrition rate on a
Soviet strike would ensure that
most of our retaliatory force
would survive, so the Soviets
would realize that attacking the
US would be suicidal." Do Pi-
trelli and Theobald not know
that of the roughly 10,000 strat-
ic warheads in the US arsenal,
about 1/2 are on submarines, 1/3
of which are at sea and on alert
status (DEFCON 3) even when all
other forces are at their lowest
state of readiness (DEFCON 1),
not to mention that 1/3 of the
boomer force (about 100 B-52s)
is always on alert readiness, capa-
bility of being launched within 15
minutes? Furthermore, a Soviet
attack on the many communications fa-
cilities would not prevent the
sub from launching their mi-
siles, since they do in fact have
the capability to launch with
out the President, albeit with
some delay. I don't know what
Pitrelli and Theobald think, but
attacking with the full knowledge
that my opponent will have at
least 3000 warheads remaining
sounds a lot like suicide to me.

In considering the costs of SDI
versus the cost of the Soviets ex-
panding their missile force by a
factor of four, which they state as
$1.5 trillion (from what source I
wonder), Pitreli and Theobald
state "though we do not know
exactly what an SDI system
would cost, reasonable estimates
are far lower than $1.5 trillion." In
fact, a 1992 Defense Depart-
ment report said that a system of
space-based lasers, not including
all the other systems which a
complete SDI system might have,
would cost up to $500 billion (see
"Strategic Defense and Anti-Sat-
ellite Weapons." Hearing before
the Senate Committee on Foreign
Relations, 4/25/84, p. 67). And
when was the last time a major
military system was completed
anywhere close to its original
estimate? The costs of SDI are
likely to increase dramatically as
the vicious race between counter-
measure and counter-counter-
measure gets into full swing.

The whole subject of counter-
measures is a tricky area. For in-
stance, during the boost phase,
one could retaliate one's ICBCMs,
but that was only by exposure from
the target. A counter-counter-
derive might be great incentives in times of cri-
small, high velocity pellets. With
both the target satellite and the
incoming pellets travelling at a
few kilometers per second, any
impact is likely to seri-
age the target. Shielding is also
ineffective against space missiles
which would lurk nearby each
defensive battle station, blowing
itself up along with the target sat-
icile on orders from the ground.
It is also difficult to shield laser
mirrors or optical sensors, since
they must have access to the out-
side environment.

The potential for preemptive
attacks against space-based bal-
listic missile defense systems is
perhaps the worst aspect of SDI.
Imagine that both the US and
Soviet Union had SDI-type sys-
tems in space. Would there not
be great incentives in time of cri-
inst to strike the opponent's SDI
system, destroying his defenses
while safeguarding your own? This
is an important point not
addressed by Pitreli and Theob-
ald.

I could go on for pages, but I
don't want to displace any of the
cartoons, which is what most of
us read The Tech for anyway.
right? To Pitreli and Theobald,
my parting words are to check
out both sides of the issue. Try
the OTA report I quoted earlier
or "The Fallacy of Star Wars" by
"The Union of Concerned Scien-
tists for starters.

Eric J. Kater '91

Strategic Defense Initiative is flawed in many ways

UA NEWS AND SHIRT REPORT

DON'T MISS YOUR CHANCE TO BE IN WHO'S WHO!!!!

The Undergraduate Association Nominations Com-
mitee is now accepting nominations for "Who's Who
among students in American Universities and Colle-
ges." Any junior, senior or graduate students who

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mitee is now accepting nominations for "Who's Who
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ges." Any junior, senior or graduate students who
do not know who they are, or possess outstanding
qualities in scholarship, leadership, service, sports,
citizenship, are urged to submit cover letters and re-
sumes to the UA NomCom, ASAP, W2O-403, by 12/2/
685. If there are any inquiries, please direct them to
Lulu at 494-1567, or leave a message at the UA Of-
fice, x3-2996. If you don't have any questions or
concerns please call Dave at 8L-5692. His hours will
be posted in Lobby 10 all next week.

Class of 1988:

THEY ARE COMING!!

Yes, you heard it here first. They are coming but
they won't last long. The class of 88 T-shirts will be-
come collectors items soon after they go on sale. Soon
after returning from your Thanksgiving gorge.
Forward to stuffing yourself into a shirt that
deserves the best.

THE UA WISHES
EVERYONE

A HAPPY
AND
MEANINGFUL
THANKS GIVING
SDI alternatives debated at forum

(Continued from page 1)

race, according to Yonas. SDI could achieve those goals, he said, because the changes in offensiveness that the Soviets would need to make to overcome an SDI defense might be too difficult or expensive.

Predictions of SDI's impossibility are premature, Yonas said. His own analysis is "to carry out a research program... as a basis for a decision in the early 1990s." There are so many possible countermeasures to SDI that the program is not worthwhile, Garwin claimed. A variety of countermeasures that offensive missiles could use to "destroy, suppress, or overwhelm" the defense are feasible.

For example, he said, Intercontinental Ballistic Missiles could jettison their fuel in the boost phase so they could not be tracked as easily, be protected from the damaging heat of entry by screens or cooling, or hide from defensive sensors with counterscreens or decoys.

In a question-and-answer period following the discussion, one asked, why offensive missiles would not develop the countermeasures that offensive missiles could use to destroy, suppress, or overwhelm the defense.

"We're finding it a little more difficult," Garwin said, "but the envelope cartoon countermeasures are very hard to engineer." SDI impedes arms control, Garwin also said. Any defense will be imperfect, so we must "recognize that we're going to be in a world of deterrence through reiteration for a long time."

"One point that should be very clear is that offensive weapons on each side, much fewer than the current stockpiles, are required for deterrence, Garwin continued. But SDI blocks efforts to reduce them to that level, he said.

Despite SDI's flaws, Garwin ordered research at the rate of $1.5 billion per year to endorse research at the rate of $1.5 billion per year to improve the "cost exchange ratio" - the relative costs of offense and defense.

Another important question, Flax added, is whether any ballistic missile defense could overcome the "offense-dominated" nature of the current doctrine of mutually assured destruction (MAD). MAD is based upon the belief that nuclear war is forestalled by each side's knowledge that the other can retaliate decisively to a first strike.

Some say "Star Wars" would defeat all threats, but there are "no certain of success, but others think it would weaken offensive attempts to defeat it with even greater offensive strength, he explained.

"I don't think there is a solution," Flax added, "but we are going to have to do something about this, and the only thing we know how to do is SDI."

Research on intercepting and defeating ballistic missiles has been going on since the Army's Sentinel and Safeguard programs went forward in both the Soviet Union and the United States, Flax continued. Research proceeded under the ABM treaty, he continued.

"Sentinel and Safeguard programs were both ABM programs that wereDDS unknown to us before..."

(Yonas criticized Garwin's argument.)

Despite SDI's flaws, Garwin claimed. A variety of countermeasures to SDI that the Soviets would need to develop to overcome SDI defense were premature, Yonas said. There are so many possible countermeasures to SDI that the program is not worthwhile, Garwin claimed. A variety of countermeasures that offensive missiles could use to destroy, suppress, or overwhelm the defense are feasible.

For example, he said, Intercontinental Ballistic Missiles could jettison their fuel in the boost phase so they could not be tracked as easily, be protected from the damaging heat of entry by screens or cooling, or hide from defensive sensors with counterscreens or decoys.

In a question-and-answer period following the discussion, one asked, why offensive missiles would not develop the countermeasures that offensive missiles could use to destroy, suppress, or overwhelm the defense.

"We're finding it a little more difficult," Garwin said, "but the envelope cartoon countermeasures are very hard to engineer." SDI impedes arms control, Garwin also said. Any defense will be imperfect, so we must "recognize that we're going to be in a world of deterrence through reiteration for a long time."

"One point that should be very clear is that offensive weapons on each side, much fewer than the current stockpiles, are required for deterrence, Garwin continued. But SDI blocks efforts to reduce them to that level, he said.

Despite SDI's flaws, Garwin ordered research at the rate of $1.5 billion per year to endorse research at the rate of $1.5 billion per year to improve the "cost exchange ratio" - the relative costs of offense and defense.

Another important question, Flax added, is whether any ballistic missile defense could overcome the "offense-dominated" nature of the current doctrine of mutually assured destruction (MAD). MAD is based upon the belief that nuclear war is forestalled by each side's knowledge that the other can retaliate decisively to a first strike.

Some say "Star Wars" would defeat all threats, but there are "no certain of success, but others think it would weaken offensive attempts to defeat it with even greater offensive strength, he explained.

"I don't think there is a solution," Flax added, "but we are going to have to do something about this, and the only thing we know how to do is SDI."

Research on intercepting and defeating ballistic missiles has been going on since the Army's Sentinel and Safeguard programs went forward in both the Soviet Union and the United States, Flax continued. Research proceeded under the ABM treaty, he continued.

"Sentinel and Safeguard programs were both ABM programs that were unknown to us before..."

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Columbia divests, but Dartmouth refuses

By Earl C. You

TUESDAY, NOVEMBER 26, 1985 The Tech  PAGE 11

The TD built the shanties to coincide with the Dartmouth Board of Trustees meeting that weekend, Menon told The Tech. The trustees, who usually hold a press conference after each meeting, did not disclose the proceedings of their meeting to the public, Garnett said.

"No action was taken by the board with respect to your demands," stated a letter Shanahan addressed to the DCD Nov. 17. "I am personally writing to tell you that you will receive no specific response from the trustees," continued the letter.

The Dartmouth faculty passed a resolution by a 108-0 vote in May to recommend to the board that it divest in South African-related stock.

Approximately 50 faculty members and 150 students participated in a demonstration Nov. 20 in front of the administration building, Garnett added. "I've been involved in this [divestment movement] for three years, and the faculty involvement is just incredible," Menon said.

Leo Sprinkle, Dartmouth history professor and former chair of the Dartmouth Committee on Investment Responsibility, faulted the trustees for not responding to calls for investment from various segments of the community.

"Time and again, the trustees have been unwilling to confront the fundamental ethical issue at the basis of their South African investment policy," Sprinkle explained in the Nov. 18 Denver Post.

Robert Henderson, chairman of the trustees' Committee on Investments, argued that the trustees have a responsibility not to jeopardize Dartmouth's endowment assets, according to The Tech.

Menon did not believe the board would seriously consider divestment, in spite of the campus-wide protests.

"To be quite honest, I really don't think they'll do anything," Menon admitted. "They haven't even responded to the faculty vote or our protests. But we're trying to push them on all fronts." Dartmouth has $64.7 million invested in US companies in South Africa, which is 15 percent of the school's total endowment, said Dartmouth spokesman Alex Klepperson. A letter Menon said he received in the Nov. 19 Boston Globe.

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