By Reuven M. Lerner
Two MIT students have been awarded prestigious Marshall Scholarships, allowing them to study at British universities for two years of free charge.

The winners, Casimir M. Wierzynski '93 of Lambda Chi Alpha, who is the new IFC president, and Marsha E. Bratton '93 of WLDG are vice president, have been chosen to receive the scholarships.

The winners were selected from a pool of 400 candidates.

DCAA advises the Office of Naval Research concerning university requests for federal funding. Its recommendations and the universities' responses are given to the federal agencies which provide the funding. The OAR makes the final funding decisions, Campbell said.

MIT is challenging the DCAA recommendations for the fiscal year 1996 budget in the areas of allowable indirect costs, or overcharges, rather than in the areas of allowable direct costs, or undercharges, according to the MIT News Office.

Only library and administration costs are disputed, according to the MIT. Currently the government has cut the DCAA's report to 49 percent of its library costs as research-related; the DCAA wants to reduce this amount to about 21.5 percent for FY 1996. The government is awarding MIT approximately $3.4 million.

In another case, MIT is challenging DCAA recommendations, MIT will challenge their decision at the judicial level of the Armed Forces Board of Appeals, Culliton said.

The current system allows individual projects to hire more research assistants, since their (Please turn to page 11)

Inside

Many auto larcenies occur during break

By Lakshmana Kao
Thefts increased this year as increased larceny and pilferage from cars on Audrey Street and other areas near the end of campus.

Three cars parked on Audrey Street behind Tang Hall were broken into during the early hours of Dec. 27. A total of seven cars were broken into during the week ending on Dec. 28, according to Officer Paul J. Douglas, campus police captain.

This year's accepted students are accepted into the Class of 1996, 180 (3 percent) are accepted from 33 percent last year. One hundred sixty-nine (38 percent) are minority students, including 57 African-Americans, 15 African-American, 15 Mexican-Americans, five Hispanic-Americans, and four Puerto Ricans.

Some students submitted incomplete applications and may still be accepted upon their applications are completed. The average SAT critical reading and math test scores show nine students admitted.

Millen early action students admitted from large pool

By Brian Rosenberg
Despite an 8 percent increase in applicants, MIT has admitted 26 fewer early action students than last year. The government has reduced several years ago in an effort to reduce the number of applicants.

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Cars pilfered during break on Audrey Street, West campus

(Continued from page 1)

Two DormCon positions still empty

(Continued from page 1)

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Somerville Apts. NO FEE., near Davis Sq. and Porter Sq. 1, 2, 3 Bedroom. new kitchen; bathroom, garage parking, washer/dryer. North St., $750. 3 Bedrooms, new appliances and carpet, garage parking. Paulina St., $1100. 2 Bedroom, modern amenities. For more information call Paul Brink at 617-396-3073.

The Church of Jesus Christ of Latter-Day Saints is looking for roommates to stay 1 yr. in Cambridge. For more information, call Elder Banks or Elder Adams at 617-922-5000.

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February 4 & 5

See your Placement Office to schedule an interview while our representatives are on campus.
World

Yugoslav military shoots down European Community observers

The Yugoslav federal military is expressing deep regret about shooting down a European Community helicopter over war-torn Croatia. The helicopter was one of two choppers reportedly traveling from Belgrade to Zagreb in areas said to be safe from conflict. Officials said a Yugoslav air force jet fired a missile that hit the helicopter and killed all five EC military observers on board.

In a statement carried by the Tanjug news agency, the Defense Ministry said it has ordered an investigation. The Yugoslav federation's air force commander has been suspended pending investigation of the attack.

The United Nations Security Council denounced the shoot-down as taking place off the coast, but diplomats said the council will still approve a plan to send an advance team of military observers to Yugoslavia.

Arabs will come to peace talks

A Syrian source said the Syrian delegation to the Mid- east peace talks will leave for the United States in two days for a belated beginning to the latest round of talks. Jordanian and Palestinian delegates are also reported ready to make the trip now that Israel has been reprimanded by the United Nations for its plan to deport 12 Palestinian activists. This leaves Lebanon as the only Arab state not committed to returning to the table. Their Israeli counterparts have been waiting in Washington since the peace talks were to start yesterday. The Arabs had refused to take part until the UN Security Council condemned Israel's deportation of 12 Palestinians from an occupied Jerusalem. A Syrian official said the 12 had encouraged attacks that led to the recent deaths of four Jewish settlers.

Nation

Love Canal dispute continues in trial

A lawyer for New York state said the company that created one of America's most notorious toxic dumps was too cheap to fix it so kids could one day use it. Eugene Martin-Leaf said the top management of Hooker Chemical chose profits over children at Love Canal in New York. He spoke in closing arguments in the state's suit for $250 million in punitive damages from the company, which is now called Occidental Chemical. Occidental said the company just followed standard procedure for the time, which was 30 years ago. The case is on the company's claim that governments should share the cost of cleanup are due later this month.

Plane's engine falls off

Passengers aboard a Delta Air Lines jet watched as one of the plane's engines fell off and tumbled to the ground today shortly after takeoff. No one was injured in the incident which occurred shortly after the plane left Dallas-Fort Worth International Airport. One of the 44 people aboard said "when you see fuel coming out of the wing" obviously you panic. But the passenger gave the pilots credit for doing "one heck of a job."

Bush and businessmen visit Japan

President Bush is visiting Japan to meet with Emperor Akihito to hold talks with Prime Minister Miyazawa. Yesterday, Bush and the chairman of the biggest US auto maker, General Motors, welcomed to the palace. The official welcoming ceremony was followed by meetings between Bush and Japanese officials. Their mission is to try to win Japanese officials to open markets to US products.

Statute owners file copyright suit

The owner of the copyright on the GI statue at the Vietnam Veterans Memorial in Washington fire asking a federal judge to bar a veterans' group from selling photos of the artwork. A group called Homecoming Two has been selling photos and T-shirts of the statue. An attorney for the copyright owners said they are due a copyright fee. But a lawyer for the veterans' group said the statute is a public monument for all to photograph.

Scientists locate a heart disease gene

Scientists said they have found the location of a faulty gene that may be responsible for 25 percent of all heart disease. People with the gene are more likely to build up fatty deposits in their arteries. Scientists are hoping the discovery of the gene's location might lead to a test that will identify people with a high risk of heart problems. The findings were reported in yesterday's edition of the Journal Proceedings of the National Academy of Sciences.

Weather

Sunny but cool

Wednesday: Mosty sunny and cooler, High around 55 °F (2 °C). Northwest wind 10-20 mph (16-32 kph).

Wednesday night: Clear. Low near 20 °F (-7 °C).

Thursday: Mostly cloudy with a 30 percent chance of showers or flurries. High around 35 °F-39 °F (2 °C-4 °C).

Forecast by National Weather Service

Compiled by Sarah Keighley

News Roundup

from the associated press wire

World

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Local

Local economist comments on Senator Kennedy's plan

Senator Edward Kennedy's (D-Mass.) plan to boost the economy by cutting defense spending is drawing mixed reviews from a local economist, David Wyss of DRI/McGraw Hill in Lexington said the more than $200 billion cut in the defense budget proposed by Kennedy is possible given the state of the world. But Wyss said large cuts in military spending might also put curtail the US out of work. Wyss said Kennedy might be trying to do too much with the estimated savings. He said there is not enough money on, particularly national health insurance.

Abortion bloc rates Massachusetts unlikely to lose abortion rights

A national pro-choice group said women in Massachusetts are not likely to lose abortion rights even if the US Supreme Court overturns Roe v. Wade. The National Abortion Rights Action League is ranking each state according to its current abortion laws and the views toward abortion of its governors and state legislators. Massachusetts was placed in the "low-risk" category, which means that abortion is likely to remain legal in the Bay State, Connecticut, Maine and Vermont are also considered states where there is the least risk of changes in abortion laws. Women in New Hampshire and Rhode Island are considered at moderate risk.

NARAL said the Supreme Court could leave millions of women without abortion rights if it lets states set tighter limits on abortions. The pro-choice group said that 13 states are likely to ban abortions if the high court reverses its 1973 Roe v. Wade decision. NARAL Executive director Kate Michelman, speaking yesterday, could over-turn the abortion-rights ruling as early as June.

The Tech's Response Line

Do you have an opinion on an issue, or a comment about anything you saw in The Tech? Then tell us at our Response Line. Leave your name, MIT affiliation, and evening phone number with your message. (The Tech's business number will continue to be 258-8219.)

Tech's Response Line

258-8219
In North Korea, Bush forgot how to battle a cold war

Column by Matthew H. Hersch

I was admiring those hot little red peppers you get in takeout Chinese food when I thought of North Korea. After all, they’re too large to ignore and leave a bad taste on everything they touch. The only way to live with them is to avoid them, or remove them — an annoying, time consuming, messy process.

But that column isn’t about North Korea, at least not entirely. It’s about President Bush, and his recent re-con traction to peaceful overtures made by the communist North to its brother, South Korea. Ever since the 1950s, when another US-led coalition force repelled a Northern invasion of the South, North Korea has been a hostile throwback of hardline communism. With a seemingly large military and a nuclear weapons program, North Korea had implied, until now, that it would one day rudely dethrone the nation under iron-fisted Northern rule. When North Korea announced its intention to halt its nuclear program and open up a little more to the South, the North took everyone by surprise.

Cautious President Bush, the most surprised of all, advised the South’s leadership to stay on the alert for trickery. For a lifetime cold warrior, Bush hasn’t seemed to get cold war referee down quite yet. He has seemed to forget some of the more important rules:

1. Never act casually. When the bad guys offer you concessions, accept them pleasantly and ask for more. If the North Koreans are really trying to trick us by extending a hand of friendship, we can better embarrass them by convincing them to give us more than they want us to win. Acting negatively in the face of only embarrasses the New World Order.

2. The bad guys are as speeded up as you are. Just because North Korea has a large standing army, that does not mean it is militarily secure. It is possible that North Korea is using this for peace because, after suffering the US victory in the Gulf, it fears a similar US strike. Communist nations have always been prone to this kind of paranoia, and the Chinese have been camping out in their bomb shelters since last February.

3. Communism is destined to sink. Despite reports that North Korea’s economy is far from collapse, North Korea may be hitting rock bottom, and might be trying for peace because it needs Western cash. US intelligence agencies have always over-inflated the capabilities of communist economics — it is possible that North Korea is gasping for air.

4. Yield to self-determination. Advocates for resiliencies of North and South Korea have a big following in the American-aided South. In its quest to squash North Korea, the United States should not annoy the South Koreans by trying to drive a political wedge between nations of ethnically similar peoples. In doing so, it will only appear racist. The Soviets tried splitting up various Asian and Slavic peoples when they created their socialist republics in the USSR, and they only caused civil war and revolt in the process.

5. Superpowers shouldn’t lecture allies. The United States contributes to the defense of South Korea, but it should let the South Korean leadership be the spokesman for this defense. American presidents have always tried to avoid publicly lecturing Western allies to bolster the joint nature of their defensive arrangements and avoid resentment. In ordering the South around, Bush only belittles his Southern allies.

Matthew H. Hersch, a sophomore in the Department of Physics, is an opinion editor of The Tech.

LETTERS TO THE EDITOR

MIT students understand meaning of Christmas

The Elizabeth Peabody House would like to express heartfelt thanks to all of the students at MIT who participated in the 1992 MIT Annual Christmas gift drive in the donation of more than 250 presents to the children and youth of Somerville. Gifts were purchased with each individual child in mind and were beautifully wrapped. Many students even took the time to include a note from "Santa." The many of the gifts were sent to needy families, and parents were touched by your generosity.

We would also like to thank the MIT Public Service Center for organizing this very generous contribution. This gesture of giving and community service shows that the students at MIT know the true meaning of Christmas.

Andre L. Terr
Director of Social Service
Elizabeth Peabody House
PRE-INVENTORY SALE
THRU SATURDAY, JAN. 11, 1992

SAVE 50%* ON SELECTED WOMEN'S OUTERWEAR, SPORTSWEAR, SWEATERS, INTIMATE APPAREL AND ACCESSORIES

SAVE 50%* ON SELECTED MEN'S OUTERWEAR, AND SPORTSWEAR

SAVE 25-50%* ON MEN'S SUITS, SPORTCOATS AND FURNISHINGS

SAVE 33%* ON SELECTED SMALL ELECTRICS AND ALL FARBERWARE COOKWARE

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BUGSY

Hook

FATHER OF THE BRIDE

The NATIONAL Film BOARD OF CANADA presents CANADA’S ANIMATION FESTIVAL At the Coolidge Corner Theater through Jan. 9.

By CHRISt ROBERGe

BARRY LEVINSON, DIRECTOR OF "BUGSY" "HUSBANDS" AND "WIGGLERS," HAS CREATED ANOTHER GREAT FILM IN "BUGSY." THE MOVIE DERIVES ITS NAME FROM THE IDEA OF BUGSBY (WILLIAMSB), ONE OF THE MOST NOTABLE OF THE PROFESSIONAL GAMBLERS OF THE 1940'S, AND HIS RELATIONSHIP WITH A HOLLYWOOD ACTRESS, VIRGINIA HILL.

Levinson depicts Siegel as a man fascinated with appearance and constantly attired in tailored suits that he wears under tuxedos, practicing his diction and imitating the vocal tones of Humphrey Bogart. In a scene, Siegel and his mother, Theodore, attend a screening with images and film in particular, is what draws him at first to Siegel and Levinson. It is a scene that starts their first movie on screen and it is a scene that draws Siegel and Levinson into their careers. The opening of the film, looks like a blank slate, but still manages to generate a great deal of excitement.

The kids try to engage Peter to make sure youthful side through food fights and body paints so that he can battle Hook on his motormane ship, which is merely another huge ship that constantly dwarfs the story and characters.

Hook derives its name from the idea that Hook represents a dysfunctional form of development that towards which Peter is steadily heading. Hook is a man dreading his mortality. He destroys all clocks, makes easy prey of childishly suicidal, and wears a huge wig with long, black curls to hide his gray, receding hairline. Over the course of the film, Peter must learn to face the prospect of adulthood in a more mature and brave manner than his nemesis, while retaining a clear sense of fun. This is a great theme, but unfortunately, like all of the pleasures of Hook, it erodes sporadically after breaking through the thick, glossy and, ultimately, dull exterior of the movie.

The script, as updated by Nancy Meyers and Charles Shyer, is even more slight than it is humorous. This isn't exactly Chinatown, and no one will hold his her breath when Annie suddenly calls off the wedding. For a good time at the mov- ies, though, Father of the Bride rarely fails.

T HE MOST IMPORTANT FILM OF THE holiday season, and of the entire past year, is unquestionably Oliver Stone's JFK. Few movies this season attempted something so bold, and few were as intense and gripping as this propaganda's suspense story. Yes, this movie is propaganda, and no, I wouldn't recommend that anyone take any of the movie's "facts" at face value, but the emo- tional content, strong message and sheer filmmaking skill present here are undeniable.

In its opening credits, JFK moves from Eisenhower's farewell address through Kennedy's presidency to his assassination in Dealy Plaza on Nov. 22, 1963. New Orleans District Attorney Jim Garrison (Kevin Costner) is shocked by the nation's loss, but is intrigued when the name of David Ferrie (Joe Pesci), a New Orleans resident, is mentioned in association with the CIA, FBI, armed forces and Castro Cubans. The theories that Garrison discovers are told in close detail, and the amount of information presented in just over three hours is astonishing.

In an extraordinary sequence, Garrison and some of his legal aids sit in a restaur- ant discussing the events of Oswald's life leading up to the assassination. As they (Please turn to page 2)

District Attorney Jim Garrison (Kevin Costner) confronts reporters in JFK.
Canada's animation festival both artistic, funny

(Continued from page 6)

I talk, images appear on the screen — some actual footage of Oswald, the remainder brilliantly shaped "recreations" photographed in black and white. Scattered among the scenes involving Oswald are quick shots of a Life magazine cover being created by pasting together parts of different photographs showing Oswald and his neighbors. The Life cover becomes a symbol of the manipulations and omissions that may or may not be present in the government's explanation of the assassination. Of course, it also serves as a reminder of the liberties that Sturm has taken in his telling of a contrasting explanation. Among the "recreations" of Oswald, scattered brilliantly throughout, are actual frames of the murder scene. The contrast between the truth and the official story is so compellingly presented, and the message of truth before obedience is so strong, that right or wrong, this exciting film should be praised more than criticized.

Finally, for something quite different from all of the above, the National Film Board of Canada's Animation Festival comes highly recommended. This new festival is intended to celebrate 50 years of Canadian animation, although the program consists of 11 new shorts and only five looks back (the farthest look being only six years).

Most of these new films are above average relative to most of the animation festivals that make their way to the Boise area. Unlike the excellent Bird & Twisted Festival of Animation early fall of 1991, this new selection is slanted more to the artistic than to the humorous. A great deal of effort seems to have been made in choosing films that not only excelled in terms of quality, but exhibited markedly different styles of animation. Brian Dechert's The Bachelor Birdman, the story of an economy 1905 Avro, tends to drag at a fairly lengthy eight minutes, but the three-dimensional model animation using latex puppets is fantastic.

Wendy Tilly's Strings, dealing with the bonds between two strangers in adjacent apartments, was created by painting on glass — a process that yielded remarkably fluid results. The visual highlight of the festival is Two Sisters, by Caroline Leaf, which describes a daffy young writer and her protective sister living on an isolated island. Leaf produced the short by redacting directly onto large frames of 70 mm color film. The resulting sharp contrasts between light and dark are stunning. By way of humor, the new selections often fall short, with the exception of Richard Condie's The Apprentice. The Apprentice is a fairly plotless excursion that follows an idiot's adventures after he leaves his master. The film is composed of a series of gags, some of them sick, most of them unconnected, but all of them funny. My personal favorite was a film that combined both a unique animation style and a great sense of humor. John Weldon's The Lumps was constructed with "reclamation" by combining found materials and digitized faces in telling the story of a very short and unattractive man whose problems are solved when a lump on his head grows into the shape of a handsome bust. By simply buttoning his shirt over his less pleasant head, his entire life changes.

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An opportunity for men from abroad to discuss issues relating to moving to a new country and adjusting to a new culture. The group will meet weekly throughout the year. For more information please call Dr. Paul Wood at 3-2916.

VINTAGE JEWISH FILM FESTIVAL

"THE JAZZ SINGER" (1927)
Wednesday, Jan. 8, 8:00 p.m.
M.I.T. Student Center, 20 Chinmonds
84 Massachusetts Ave.
$2.00
Al Jolson appears and sings in this classic film about a cantor's son who wants to make it on Broadway.

"HIS PEOPLE" (1965)
with Live Music
Wednesday, Jan. 15, 8:00 p.m.
Killian Hall, 160 Memorial Drive
(M.I.T. Bldg. 14W-111)
$2.00
Prof. Martin Marks will provide live piano accompaniment to this silent film with English intertitles. The film tells the story of an immigrant family on the Lower East Side of New York City as they experience their children's assimilation into American society.

Sponsored by M.I.T., Hillel, 313 Memorial Dr., Cambridge For information call 253-2982
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IAP is one of the best times of year to enjoy the arts at MIT.
During IAP, over 70 arts-related courses, lectures, workshops, films, trips, and performances are available to students. Those events listed in On The Town are set off in special "IAP ARTS" boxes.

The Office of the Arts has compiled two listings of IAP arts events to help you plan your activities. January Arts Events at MIT and IAP Arts at MIT are available at the Office of the Arts (E15-205), the Information Center (7-121), the Information Desk in the Student Center, the Humanities Library, the Music Library and various arts departments.

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The TI-81 is a perfect example. It offers the most comprehensive, easy-to-use graphing features available with extensive programming capabilities.

Texas Instruments
Two MIT students awarded Marshalls

(Continued from page 1)

Marshall Scholarships, awarded annually since 1955, are Brit- ain's official gesture of thanks to the United States for aid received after World War II under the Marshall Plan. The scholarships, which are paid for by the British government, are worth about $22,000 per year, and cover tuition, books, travel and living expenses.

In contrast with Rhodes Scholarships, who must attend Oxford University, Marshall recipients may study at any British university. Students specify the university and program they wish to attend when applying for the scholarship.

One important basis for selection is academic performance, Hobbs said, adding that applicants must have a grade point average of at least 4.7. An interview is also part of the application process, because "it is not necessarily being brilliant and not being able to communicate it."

The ability to excel in whatever field of endeavor the candidate has qualified in is the most important criterion." The idea is that these people are going to be leaders of all sorts in the US when they return," he added.

In this series we have discussed topics that are at the heart of the educational process. Your awareness of them and your conscious application of them during your education can add you in getting the most out of your years in school.

Here is a summary of the main points of each essay:

The purpose of education...

- The ability to do excellent work in a range of fields and to meet diverse challenges with clarity, bold thinking and creative solutions are the hallmarks of a good education.
- The skills we learn are an acute ability to observe all aspects of a problem, to integrate a wide range of knowledge, to analyze in depth, to obtain insights, to find creative solutions, and to rigorously test the solutions.
- Pressure, confidence and self-esteem.
- "Pressure to excel is inherent in any institution that strives to be the best of its kind."
- "There is a temptation to suggest changes to reduce this pressure, a lighter course load, easier grading, easier courses, less homework, etc.
- Experience teaches us that in the long run confidence and self-esteem cannot come from reducing the challenges we face.
- When we face the challenges of solving real and difficult problems, when we solve problems others have attempted and have not solved, when we break ground with new knowledge, when we use our own solutions tested by reality and found satisfactory, then we acquire confidence and self-esteem. There simply is no other way.
- And recognition: when it comes, it is fully deserved."

"The principal obstacle to achieving creative breakthrough is a premature conclusion that a better solution is not possible.

To overcome this obstacle we need to add to our basic intellectual skills and technical foundation the following elements of attitude:

1. A strong desire for a creative breakthrough.
2. Confidence in our ability.
3. An expectation that many false starts may be necessary.
4. Sufficient immersion in the problem to engage all our faculties.
5. A willingness to pursue solutions until a breakthrough is achieved.
6. Analysis of each attempt to aid in the development of insight."

Developing your thought process.

"As students of science and engineering, you have an excellent opportunity to develop your thought process by working on problems whose correct analysis yields a unique answer."

Search for the correct solution causes you to rethink the problem until comprehension develops and you get the right answer. The homework problems you solve often involve fundamental concepts that are applicable in areas far removed from the original area of study. To further your understanding of the concepts, simply ask yourself what are the basic concepts of the problem and write them down in a few words. Another useful exercise in the development of your thought process is to explain the concepts to another student. This process provides feedback and reactions to confirm or challenge your understanding.

In summary, work on problems that have verifiable answers, articulate the correct concepts in a few words, then try to explain (touch) the concepts. This will substantially increase your ability to derive the full benefit from your education.

Note: Each year the Bose Foundation sponsors a one year fellowship for a first year graduate student in electrical engineering. Students are urged to apply for more information or write to: Shafts Long, Bose Foundation, The Mountain, Framingham, MA 01701-0080.

Deadline for application is February 21, 1992.

For the full text of this series write Bose Foundation, The Mountain, Framingham, MA 01701-0080.

US auditors call for $22m rebate

(Continued from page 1)

tuition are not paid out of the project's budget. If RAs' tuition were added to the cost of specific projects, they could not afford to hire as many RAs, Campbell said. The change would have made MIT less competitive with other research universities, Campbell said.

"The result of this indirect method has been a significant increase in a key measure of MIT's productivity -- the number of doctoral students graduating," Culliton said in an article released by the News Office.

Culliton says $111 million can be reconciled

About half of the $22 million should not be in question, Culliton said. MIT received about $4 million that it did not spend and thus will not be billed to the government. Another $6 million, set aside for post-retirement medical costs, will be removed from the $22 million as soon as a Voluntary Employees' Beneficiary Association is set up, probably by the end of the year, Culliton said. Another $1.1 million includes accounting errors made during the past five years, in addition to errors in projections for FY 91 and FY 92, Culliton said. MIT has already paid the government $778,000 for its overcharges over the past five years.

"To put it another way, our accounting for indirect costs for these five years is around 99 and 64/100 percent accurate. That does not excuse the errors that were made; it simply puts them in some perspective," Culliton said in the News Office release.

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- "There is a temptation to suggest changes to reduce this pressure, a lighter course load, easier grading, easier courses, less homework, etc.
- Experience teaches us that in the long run confidence and self-esteem cannot come from reducing the challenges we face.
- When we face the challenges of solving real and difficult problems, when we solve problems others have attempted and have not solved, when we break ground with new knowledge, when we use our own solutions tested by reality and found satisfactory, then we acquire confidence and self-esteem. There simply is no other way.
- And recognition: when it comes, it is fully deserved."

"The principal obstacle to achieving creative breakthrough is a premature conclusion that a better solution is not possible.

To overcome this obstacle we need to add to our basic intellectual skills and technical foundation the following elements of attitude:

1. A strong desire for a creative breakthrough.
2. Confidence in our ability.
3. An expectation that many false starts may be necessary.
4. Sufficient immersion in the problem to engage all our faculties.
5. A willingness to pursue solutions until a breakthrough is achieved.
6. Analysis of each attempt to aid in the development of insight."

Developing your thought process.

"As students of science and engineering, you have an excellent opportunity to develop your thought process by working on problems whose correct analysis yields a unique answer."

Search for the correct solution causes you to rethink the problem until comprehension develops and you get the right answer. The homework problems you solve often involve fundamental concepts that are applicable in areas far removed from the original area of study. To further your understanding of the concepts, simply ask yourself what are the basic concepts of the problem and write them down in a few words. Another useful exercise in the development of your thought process is to explain the concepts to another student. This process provides feedback and reactions to confirm or challenge your understanding.

In summary, work on problems that have verifiable answers, articulate the correct concepts in a few words, then try to explain (touch) the concepts. This will substantially increase your ability to derive the full benefit from your education.

Note: Each year the Bose Foundation sponsors a one year fellowship for a first year graduate student in electrical engineering. Students are urged to apply for more information or write to: Shafts Long, Bose Foundation, The Mountain, Framingham, MA 01701-0080.

Deadline for application is February 21, 1992.

For the full text of this series write Bose Foundation, The Mountain, Framingham, MA 01701-0080.
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