MIT Hosts Science Advisers
By Joel Rosenberg

The Greek Minister of Finance and Minister of National Economy Ioannis Papantoniou reviewed the challenges of globalization in a speech Tuesday. Audience members filled Killian Hall to hear Papantoniou. He was introduced by the chairman of the MIT Media Lab Nicholas P. Negroponte, who is also of Greek heritage.

The speech was timely as Greece is not keeping pace with the rest of the world. In his report, “Science: The Endless Frontier,” Bush suggested the creation of what became the National Science Foundation (NSF), and thus began modern science policy in the United States.

From their remarks, several themes emerged: that scientists see the horizon of the future, while politicians can only see to the immediate future.

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Science Advisers, Page 21

Official Discusses EU, Globalization
By Matthew Palmer

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Science Advisers, Page 21

Alpha Epsilon Phi Named IFC’s Chapter of the Year

Grochow, Spieler Win Recognition at Awards Banquet
By Michael J. Ring

The Interfraternity Council recognized Alpha Epsilon Phi as its Chapter of the Year at the IFC’s annual awards banquet Wednesday evening.

In presenting the award, IFC President Rory P. Pheiffer ’02 praised AEPhi for their charity work, including their Phi Cup hockey tournament and their work with the Greater Boston Food Bank.

The IFC president also noted that AEPhi held the highest house grade point average of all fraternities, sororities, and independent living groups, and that its members are active in other campus activities.

“The amount of respect I have for [Spieler] is unparalleled,” Pheiffer said.

Chapters, Immennauer recognized
Four chapters were recognized with other IFC awards at the dinner. Theta Chi was recognized with the Order of Omega New Member Development Programming Excellence Award for its restructuring and administration. The IFC also won the Leadership and Educational Development Programming Excellence Awards for its efforts with new members and leadership retreats.

“I’ve never seen an example for all future members of the IFC to follow,” Pheiffer said.

Spieler was honored for his work as the IFC’s Judicial Committee chair. Pheiffer said that Spieler was instrumental in reaching an agreement with the Boston Licensing Board that allows the IFC wide latitude in handling problems in Boston, a system which has been very successful.

“The amount of respect I have for [Spieler] is unparalleled,” Pheiffer said.

IFC Awards, Page 21

Anti-Rape Program Added
Orientation Activity To Feature Survivor
By Jennifer Krishnan

The administration announced it will add a rape awareness program to the mandatory activities for freshmen during Orientation.

At a meeting yesterday, Associate Dean of Academic Resources and Programming Julie B. Norman informed student supporters that the administration had agreed to every point of their proposal.

“We’re all very excited,” said Radha K. Yengar ’02, president of Stop Our Silence. “We were expecting to bargain a lot.”

The two-hour program will begin with a talk given by Katie Koetner, a rape survivor, followed by a question-and-answer session, Yengar said.

Awards Banquet
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The two-hour program will begin with a talk given by Katie Koetner, a rape survivor, followed by a question-and-answer session, Yengar said.

Afterwards, the freshmen will be divided into 30 to 50 small groups. The groups will discuss the issues raised during Koetner’s talk over lunch.

Program successful elsewhere
The new rape awareness pro-

Rape Awareness, Page 17


Opinion
The Tech reviews President George W. Bush’s first 100 days in office.

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On the Screen

On the Town

E vents Calendar

Friday, May 4, 2001

The Tech

Volume 121, Number 23
Cambridge, Massachusetts 02139
Bush Orders Cuts in Power Use at Some Sites

By Robert A. Rosenblatt and Janet Hook

WASHINGTON

Four days after Vice President Dick Cheney dismissed conservation as a “nonsensical line” that begs the crucial question of sound energy policy, the Bush administration Thursday announced with some fanfare a campaign to conserve electricity at federal facilities in states facing serious power shortages.

Managers of federal installations in blackout-plagued California will be asked to reduce power consumption by as much as 10 percent at peak periods by cutting back on such things as air conditioning and lighting. President Bush said in unveiling the plan at the White House.

And government facilities throughout the nation, including the White House, will be asked to prepare contingency plans for similar cutbacks in the event their regions face power shortages. New York is still a possible candidate for such a shortage, although it appears the state may get through the peak summer period unscathed, one Energy Department official said.

Russia, China Gear Up For ‘Strategic Partnership’ Pact

By Michael Gerson

WASHINGTON

At a time when Sino-U.S. relations are going through a rocky phase, Russia and China are preparing to boost their “strategic partnership” by signing a treaty of friendship and cooperation.

After a four-day visit in which he met with Russian President Vladimir V. Putin and other high-ranking officials, Chinese Foreign Minister Tang Jiaxuan arrived Thursday carrying the draft accord in his briefcase. Barring unforeseen events, Putin and Chinese President Jiang Zemin are to sign the treaty at a Moscow summit this weekend.

The treaty will be the first full-fledged pact between Beijing and Moscow since a 1950 accord between the People’s Republic and the Soviet Union was allowed to lapse in 1979 at China’s request.

Both countries are being careful to stress that their aim is not to re-create the military alliance embraced by Mao Tse-tung and Joseph Stalin at the height of the Cold War. They also insist that the treaty is not directed against any country. Yet officials on both sides acknowledge that they see the relationship as a counterweight to the United States.

Senate and House budget negotiators agreed on a plan Thursday that could lead to the biggest expansion in decades of government funding and tax breaks designed to provide health insurance to the 43 million Americans lacking such coverage.

The provision, included in the compromise budget resolution the negotiators have been working on this week, reflects bipartisan enthusiasm for trying to significantly reduce the ranks of people without health coverage. Extending coverage has proved a stubbornly persistent problem despite the recent years of strong economic growth.

Thursday’s agreement would make available an additional $28 billion over the next decade in federal money to cover the uninsured. Proponents advocate using it to extend health insurance to parents of children already covered by a federal program for low- and moderate-income households.

This aid would be added to President Bush’s proposal to give tax credits worth $71 billion over 10 years to low-income families to help them buy health insurance.

If the final legislative process produces the $9 billion in total outlays and credits, it would represent the biggest boost in the government effort to help the uninsured since Medicare was created in 1965.

The ultimate fate of the proposals remain uncertain. The budget resolution containing the health insurance initiatives does not actually implement the policies; it simply sets broad spending parameters for spending and tax legislation that Congress will enact later this year. That means separate legislation will have to be passed to actually accomplish the expansion of health coverage for the uninsured.

The proposal to directly appropriate an additional $28 billion for such coverage is sure to be opposed by some Republican lawmakers who want to keep government spending growth in check. And some Democrats in the closely divided Congress can be expected to question whether Bush’s tax credit plan would go far enough in helping low-income families obtain health insurance.

Still, many lawmakers have indicated strong support for both proposals. And the White House, along with pushing its tax credit plan, has not signaled objections to the $28 billion spending proposal.

Bush Attacks China on Religion

President Embraces Agenda to Increase Religious Liberty

By Norman Kempster

WASHINGTON

Vowing to make religious liberty a “guiding doctrine of our foreign policy,” President Bush said Thursday that China’s persecution of believers will thwart that nation’s aspiration for becoming a great power regardless of advances in military and economic strength.

Rejecting a diagnosis of religious repression, Bush also said his administration will never condone abuses that say it are occurring in Sudan, Iraq, Iran, Cuba, Afghanistan and the former Soviet republics in central Asia.

Bush put the White House imprimatur on a campaign to stop the conduct of business as usual with regimes that practice or condone religious persecution. His words parallel recommendations issued earlier this week by a bipartisan commission on religious liberty, although he made no direct reference to the report.

Bush’s assessment of conditions in China is sure to increase Sino-American tensions, already aggravaed by the recent collision of a Chinese fighter jet and a U.S. Navy surveillance aircraft, as well as U.S. plans to sell arms to Taiwan.

“China aspires to national strength and greatness,” the president said in prepared remarks. “But these acts of persecution are acts of fear and therefore of weakness: This persecution is unworthy of all that China has been — a civilization with a history of tolerance. And this persecution is unworthy of all that China should become — an open society that respects the spiritual opportunities for universal coverage collapsed. Oregon’s two senators — Gordon Smith, a generally conservative Republican, and Ron Wyden, a generally liberal Democrat — joined forces to include the $28 billion spending proposal in the budget resolution that Senate passed last month. The House, which did not have a similar section in its budget plan, accepted the Senate proposal during Thursday’s final negotiations on a compromise budget resolution.

“Oregon has a long and noble tradition of taking care of those who have been left behind,” Smith said Thursday. “I think that tradition is one the rest of the nation would do well to follow. In a time of surplus-

A Break in Sight

By Efren Gutierrez

SAN FRANCISCO

After a week of above normal temperatures, a break from the uncomfortable heat is in sight. A system currently located in the Great Plains will move east and impact Boston on Saturday morning.

However, before the system arrives, dewpoints will rise, and today it will be muggy.

The rain on Saturday will not be heavy, but it will go on for some time. There is no other major weather event on the horizon for the weekend, but after the rain passes, temperatures will be cooler and closer to normal.

Weekend Forecast

Today: Mostly sunny and muggy. High of 83°F (28°C).

Tonight: Muggy and partly cloudy, with a low of 64°F (18°C).

Saturday: Mostly sunny, with a high of 81°F (27°C).

Sunday: Mostly sunny. High in the upper 60s F (19-21°C).

WEATHER

Situation for Noon Eastern Daylight Time, Friday, May 4, 2001
United States Loses Its Place On Human Rights Commission

By Maggie Farley

The United States was voted off of the U.N. Human Rights Commis- sion on Thursday, marking the first time since the world body’s incep- tion more than five decades ago that the Americans will not hold a seat.

“It was an election, understand- ably, where we’re very disappoint- ed,” acting U.S. Ambassador James Cunningham said. “This won’t at all, of course, affect our commit- ment to human-rights issues in and outside of the United Nations. We’ll continue to pursue them.”

In a surprise result, the United States came in last among the four candidates up for the three seats allocated to Western countries on the panel. Austria, France and Swe- den won the places instead.

Human-rights groups say there has been growing resentment toward the United States among Western nations that are usually its allies, as well as among developing countries, because of recent Ameri- can votes opposing key human- rights initiatives.

“This has been coming. It should not have been a surprise to Wash- ington,” said Joanna Weschler, the U.N. representative of Human Rights Watch.

The United States has opposed treaties to abolish land mines, it does not support the International Criminal Court, and was voted against from a vote to make AIDS drugs more widely available.

Other recent unilateral actions by the Bush administration, such as pulling out of the Kyoto climate-change treaty and insisting on the development of a missile-defense system, have added to the frustra- tion with the United States.

“This is their wake-up call,” Weschler said. “We hope this will prompt a review of their policies.”

The 53 seats on the commission, which are divided among member states on a geographic basis, are often the object of intense lobbying by the Geneva-based organization and at U.N. headquarters in New York. The United States traditional- ly does not engage in the flurry of vote-trading and politicking, one diplomat said, perhaps because it has never thought it would lose a seat.

The United States may have been further handicapped by its bare-bones mission, which has been only partially staffed since Ambas- sador Richard Holbrooke and his team left in January. President Bush has named John Negroponte in the post, but the nomination has not yet been sent to the Senate.

North Korea Unilaterally Extends Missile Test Moratorium to 2003

By Doug Struck

North Korea will launch no bal- listic missiles until 2003, its leader told European officials Thursday, unilaterally extending a moratorium on the missile testing that had rat- tled leaders in America and Asia three years ago.

Kim Jong II said he will “wait and see” if the Bush administration wants to resume progress toward better relations before resuming the missile tests. Sweden’s prime minis- ter, Goran Persson, told reporters after meeting Kim in Pyongyang.

Fear of a missile attack by North Korea or other small hostile states has been a major factor in the administration’s interest in building a missile-defense system. On Tues- day, Bush reaffirmed intention to proceed with such a shield.

According to Persson, Kim also said his pending visit to South Korea, anxiously sought by Seoul, will similarly depend on the next move by the American president, who has taken a hard-line approach to North Korea.

“We have a clear message that Kim Jong II is committed to a sec- ond summit,” to follow the historic meeting between leaders of North and South Korea last June; Persson said. But he quoted the North Kor- ean leader as saying he first wanted “to see what the (Bush) policy review ended up with.”

Kim’s promise to extend the pause in missile testing renews a pledge he made in September 1999, launch of a Taepodong ballis- tic missile that passed over Japan.

The launch sparked Japan, sur- rounded by a nuclear-armed state, to discuss missile defense with the United States.

Bush put a freeze on those talks and discussions when he took office, promising to stop testing missiles as part of discussions on a missile defense system.

In the 1999 negotiations, the United States said it would continue to ease economic sanctions against North Korea.

But Bush froze out those talks and discussions when he took office, promising to stop testing missiles as part of negotiations following the Aug. 31, 1999, launch of a Taepodong ballis- tic missile that passed over Japan.

The study documented for the first time a modest, two-decade-long worldwide decline of a key molecule that cleanses the air. Without enough of the molecules, emissions that contribute to the greenhouse effect, smog and the hole in the ozone layer do not get destroyed as fast as humans release them.

“This one molecule is very, very important. It is the critical clean- ing chemical for the atmosphere,” said Professor Ronald G. Prinn of the Department of Earth, Atmospheric, and Planetary Sciences. Prinn led a 13-member research team responsible for the study. “If this free-radical (molecule) is decreasing, it could add to global warm- ing.”

But the losses of the chemical, called a hydroxyl radical, are slight so far and are not currently cause for alarm, experts say.

“There’s a number of research findings that demonstrate the glob- al atmosphere is changing, but we really do not know the effect it is going to have on us in the long term,” said Terry Keating, environ- mental scientist for the U.S. Environmental Protection Agency.

Indeed, some scientists say more research is necessary to under- stand the complex chemical reactions that occur in the atmosphere. Also, they say it is not clear whether the molecule’s decline is a tem- porary or cyclical event or one that portends a long-term shift.

Tina Wesson Wins ‘Survivor’

Wesson, a nurse from Tennessee, defeated automobile customizer Colby Donaldson by a 4-3 margin to win the $1 million grand prize on the season finale of CBS’s “Survivor: The Australian Outback.”

Series host Jeff Probst revealed the winner of the reality television show live last night, ending months of suspense among contestants and viewers.

Sixteen contestants endured brush fires, unexpected floods, and scant food rations during the 42-day contest, which was recorded last October and November in the Australian state of Queensland.

After every three days, the contestants voted out one member of their tribe and continued the process until the final two contestants remained. The final nine contestants, excluding Wesson and Donald- son, made up the final jury.

CBS’s investment in producer Mark Burnett’s series has proven lucrative. The show defeated NBC powerhouse “Friends” head-to- head throughout its second season, loosening NBC’s grip on Thurs- day night viewership.

“Survivor” came under fire from Australians after Donaldson stole coral off of the Great Barrier Reef, which is a criminal act. The Aus- tralian military was also criticized for wasting taxpayer money by transporting the contestants to the Outback on a government plane.

The show also drew complaints from animal rights activists, who were offended after contestant Michael Skupin butchered a pig on camera.
I'm shocked to read President Vest's statement about the recent events at ATO. In it, he refers to "an ugly and totally inexcusable incident" and says I am quite disappointed.

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I am shocked that the editorial board of The Tech and its readers. From time to time, the Ombudsman writes an opinion column and will not be returned. The Tech makes no commitment to publish all the letters received.

At best, Baskin's article was lazy. At worst, it is a disservice to the readers of The Tech. The narrow scope of his article raises serious concerns of the readership. The Tech reserves the right to edit or condense any future disciplinary proceedings. The Tech makes no commitment to publish all the letters received.

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I have taken a step in the wrong direction. Of course, I was disappointed.
The Specter follows in the steps of their professional athlete more irrational academic traditions, let alone based oligarchy is unbecoming of any May 4, 2001 least, give us one class. Wait, Kitchen forcibly remove anyone who violates those tions for using his property, and he may define exactly what constitutes one. If Harvard workers have a right to $10.25 per hour, why workers have a right to a “living wage” is also arbitrary; no one can define exactly what constitutes one. What do the protesters want? Their A living wage is arbitrary, or can look at ways to improve the lot of lower-paid Harvard workers. Its aim is to work around the board’s arbitrary administration. There are no proposed limits to work around the board’s arbitrary rules. The tent encampment on the Yard and the sit-in themselves are well beyond what Harvard should tolerate. The sit-in is also incompatible with the hope that they have continually plastered the entire campus with their demands. The PSLM has also dumped their symbolic on the statue of John Harvard, broken trash on the statue of John Harvard, broken
continually plastered the entire campus with

Finaly, the protesters have wasted no time in letting students out of administration. There are no proposed limits for employment This is a battle between right and wrong, but “right” is not a “living wage” and “wrong” is not a “right to a living wage.” If Harvard grants a single demand, it probably will not serve as an assurance that they have students are violently disrupting Harvard. What is right is to stand up for Harvard’s property rights, including its right to set its own terms for employment and what these students are at Harvard for in the first place. On the Yard and the sit-in themselves are well beyond what Harvard should tolerate. The sit-in is also incompatible with the hope that they have continually plastered the entire campus with their demands. The PSLM has also dumped their symbolic on the statue of John Harvard, broken trash on the statue of John Harvard, broken
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Karl Rove, Ralph Nader, the National Right to Life Committee, the rolling blackouts, the 1993 World Trade Center bombing, the 1995 Oklahoma City bombing — is not even being offered. Instead, the PSLM out. The ironic thing about the proposed new residential advising system is that it is an unrooted in student misbehavior, not constructively experimentation. Three years ago, housing is that every residential advising is an attempt at residence-based advising one bit. As a second-term senior, I have to admit that the results from I have to admit that the results from Home Economics and Happiness
Dan Tortorice

The Senate's vote for tax cuts estimated at $1.2 trillion over the next decade has sealed this country's fate. With the House having already passed its tax cut bill, the United States will see a tax cut of roughly $1.0 trillion. This was indeed a truly a victory for George W. Bush, for not only did he convince 15 democratic senators to transfer 14 percent of the yearly production of the whole United States to, for the most part, the country's wealthiest citizens. He did so with incredibly simplistic arguments that, not surprisingly, are false.

That the economy is slowing down, but a tax cut will put money back into the hands of consumers, reviving the economy, was a familiar antiphon as Bush attempted to garner support for his tax plan. While the statement is true enough, it is far from a conclusive reason to endorse tax cuts. While tax cuts can spur forth the economy, so too can government spending, and government spending is, perhaps, a preferable plan.

If Bush's real desire is to pump money into the economy and increase consumption, it is better to have the government spend money directly. In that case, the money is ensured of going into the economy in its entirety. To allow tax cuts, directly to consumers, part of it is saved, especially if given to the wealthy, and since burdened by future monetary obligations. If the government decrees savings in reserve, the whole tax cut does not enter the economy.

But even if this point was not well understood by those Democrats who voted for the tax cut, the Bush had been swayed by a second, perhaps more tangible argument. For if the government spent more of the tax cut, it would probably spend this money on education or social welfare programs. This fund is more effectively than a tax cut, government spending, and would benefit of actually helping needy people directly, a benefit that is not accrued with a tax cut that goes toward the economy. It is clear enough that tax cuts are not the solution active the government could have taken to revive the economy. Yet there is one more obvious rebuttal to Bush's argument that, in the Democratic's discretion, was not given due consideration. If one reason for a tax cut is to revive the economy now, why, suppose, after all, didn't Bush send the then president of the United States to be above the fray of the rest of the world. Bush Sixpack quite nicely represents both the tax cut and its Medicare and Social Security system. These funds are not surpluses at all, for they entail future monetary obligations. If the government decrees savings, and the surplus predictions fail, as predictions often do, the government will not be able to afford both the tax cut and its Medicare and Social Security obligations. The result will be either a tax cut that, which makes one wonder why it was passed in the first place, or a government that has to be provided by programs designed to help the needy, the later being a transfer of wealth from the poor to the rich.

Let no one say that the passage of a $1.2 trillion tax cut through the Senate was not a political victory for George W. Bush. For with incredibly simplistic arguments, he managed to convince 15 Democrats to support a tax cut which disproportionately aids wealthy Americans. Either Bush is an incredibly simple person who believes that the Chinese proverb, "The sleeping dog won't get up even if you kick it," is true enough, it is far from a conclusive reason to endorse tax cuts. While tax cuts can spur forth the economy, so too can government spending, and government spending is, perhaps, a preferable plan.

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Sacrificing the Environment for Profits and Politics

Ken Nesmith

The Republican Party has never been considered a friend of the environment. Whenever a dispute arises over some regulation of industry, the party will put the environment at risk by limiting production or restricting the exploitation of resources, the party fights on the behalf of the industries that will hurt the environment in the future rather than in the present. Unfortunately, this opposition is sometimes grounded not in any understanding or awareness of the problems we can create for ourselves by disrespecting the environment, but rather in a reflexive opposition to government intervention that the fickle public, who will likely not recall this initial wave of anti-environmental policy come election time.

Shewing us exactly what the honor and integrity of government office involve, Bush, in his first 100 days, overturned an EPA that had promulgated a standard for arsenic in drinking water to 10 ppb. It is unfortunate that the EPA will be rescinded altogether. Critics of the law will be denounced as villainous, because the President in the public eye as one who is not especially sensitive to, or even aware of, the catastrophic problems we can trample into when we blindly ignore the long term consequences of our actions.

Vice President Dick Cheney, a former oil industry executive, has revealed his own ignorance of destructive American gluttony in a recent discussion of national energy policy. Rather than considering the social costs of an energy policy that will allow us to remain the major consumer of coal and oil, he has determined that the best way to live in dynamic equilibrium with the earth, rather than the prerogatives of the middle class to have the same amount of energy available to us as those in the Middle East far more than we might like.

These poor choices have cast the President in the public eye as one who is not especially sensitive to, or even aware of, the catastrophic problems we can trample into when we blindly ignore the long term consequences of our actions.

The president’s high-profile snubbing of the Kyoto Protocol, which would just begin to address excessive greenhouse gas emissions, was not merely an attempt to avoid international embarrassment — as it should have, given the excessiveness of U.S. consumption and corresponding pollution, along with our unwillingness to make even the slightest change in our habits.

On the issue of expanding energy use, Bush overruled an EPA that would lower the legal amount of arsenic in water from 50 ppb to 10 ppb. This regulation, which was promulgated by the Environmental Protection Agency (EPA), was based on a study of the dangers of global warming in light of the President’s altered stance.

The problem is that the arsenic standard was adopted in the 1980s, when the scientific community was still uncertain as to whether or not to regulate arsenic in drinking water. In the last year, their own attempts to fund counterresearch could be dando.

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**MUSIC REVIEW**

**Getting ‘Sinomatic’ With It**

New Band, Produced by 3EB Veteran, Puts Out Generic but Catchy Rock

By Roshan Baliga

Sinomatic (Self-Titled Debut)  
Atlantic Records  
$11.97

From the CD’s opening chords, it knew it was going to be different. “Sinomatic,” an alternative rock band from Youngstown, Ohio, launched its self-titled debut CD two weeks ago to little fanfare. However, their CD caught my ear because up until now, the band’s music has been far more refined than many other of the “soundbites” that line the shelves at the local record store.

The band, which consists of three guitarists, a bass player, and a drummer, has recorded an energetic sound that seems made for radio. Their heavily-produced sound can be heard first on “Bloom,” Sinomatic’s first single. The song, which showcases lead singer Ken Cooper’s vocal abilities and the band’s upbeat sound, was clearly made to attack the airwaves. From a catchy chorus to a pulsing guitar line, “Bloom” simplifies the album’s desire for mainstream acceptance. In fact, “Bloom” and the next track, “You’re Mine,” sound exactly like the rock I would expect to hear on the radio.

Sinomatic’s guitar work is their strongest facet, though it reminds me of a mix of older Coldplay and new rock bands such as 3EB. Sinomatic’s interesting guitar layering can be heard throughout the album. Unfortunately the song also features a guitar solo that sounds just like the guitar solos of older rock bands. “Candykin” reminded me of Third Eye Blind’s work, which isn’t surprising since frontman and guitarist Dierdre Nunn produced the band’s debut album. However,新朋’s third guitarist, singer vocalist Ryan Keys, has clearly been the driving force behind the band. The most likely song to make Sinomatic popular is “My Type.” Though the lyrics aren’t very meaningful, the softer guitar riffs and repetitive chorus should appeal to a younger audience.

Like most debut CDs, the first few tracks seem more refined than the tracks toward the end of the album. However Sinomatic put on a good show. With three guitarists, their live performances should be able to match the effective layering heard on the CD as a new band with a new audience to impress. Unfortunately, they don’t seem to be coming to Boston anytime soon. However, if you happen to be around the midwest during the next month, you can find them touring with Buckcherry.

**CONCERT REVIEW**

Chamber Skills & Thrills

By Andrew Wong

Metamorphosen Chamber Orchestra; Scott Yoo, Music Director  
Pavans & Symmetries by Dan Coleman, Metamorphosen by Richard Strauss.  
The American Seasons by Mark O’Connor; Elizabeth Ostling, flute; Mark O’Connor, Violin  
Jordan Hall, April 29, 2001

For Sunday evening, the Metamorphosen Chamber Orchestra gathered in Jordan Hall to perform the program, which marked the final performance of the season. The program wrapped up a phenomenal concert season with high quality music and intimate acoustics.

Metamorphosen, a group of aspiring string musicians, has given four concerts this year, all of which have demonstrated the power of combining talented musicians for a string orchestra. Metamorphosen’s three guitarists, their efficient use of rotating members’ positions in an almost random sequence between pieces. This practice, similar to that of European orchestras, not only demonstrates the musical prowess of each player, but allows for an extended life for these young musicians as they continue to improve. The night opened with the world premiere of Dan Coleman’s Pavans & Symmetries. Coleman, composer-in-association of Metamorphosen and winner of the Aaron Copland Award, composed the piece specifically for flutist Elizabeth Ostling, the soloist that night. The piece opens with a mysterious cadenza that is supported by a “rustling” section in the strings. Much of the piece is written for the lower range of the flute, but Ostling maintained clarity and expressiveness in bringing out the delicate poise of the music.

The night’s next piece, Metamorphosen by Richard Strauss (the work after which the chamber orchestra is named) seemed to almost degrade the past performance laid by Coleman with dark clouds of mournig. Strauss wrote the piece in 1945, after the bombing of Dresden and two years after the destruction of the Munich Staatsoper. As the same suggests, the piece is about the internal development of ideas over time.

Scott Yoo, the conductor of Metamorphosen, dove into the podium and stretched his arms to all ends of the orchestra, as if grabbing the strings off of the instrument, and chanting the melancholic chords in an almost deliberate gesture to leave the audience in awe. This unique piece marred the depression rolling off of the cellos and basses in references to the Marica funebre of Beethoven’s Eroica symphony. By the end of the 30 minute precession towards the last piece, the orchestra members almost had a victorious guise. A thick silence enveloped the Jordan Hall after the final chord, until finally Yoo lifted his head and brought the “decreased” orchestra back to life.

Scott Yoo ended the concert with a Boston premiere of his composition, The American Seasons, a concerto for violin and chamber orchestra. The piece is constructed around three different American folk rhythms and persuades these with the seasons. O’Connor interacted with the audience with his simple, yet lively philosophy to playing the fiddle. A former student of Stephan Grappelli, O’Connor is currently on the forefront of a new renaissance of American fiddling. His command of the unorthodox violin technique breaks the barriers of the traditional classical school of playing, and brings a new meaning to the term “virtuoso.”

At the end of his tunings in “Summern,” the orchestra had a hard time keeping the style alive. The clash between dozens of fiddle-trained string players and an Irish fiddler became especially apparent when O’Connor began tapping his foot to the beat with his violin. The ending cadenza in “Winter” extinguished much of the orchestra is named) seemed to almost degrade the pastoral setting laid by Coleman with dark strings. Much of the piece is written for the lower range of the flute, but Ostling main-

**FILM REVIEW**

Liv Tyler’s Male Bait

One Night at McCool’s: Shines Like a Gem

By Sandra Chung

Directed by Harold Zwart  
Written by Stan Seidel  
Starring Liv Tyler, Matt Dillon, Paul Reiser, John Reilly, Michael Douglas

Rated R

It is like a fine dessert — every square inch of this movie’s plot has been enjoyed tracing the storylines to their bitter-end. As the plot takes shape and the three separate storylines begin to blend into each other, it becomes apparent that each storyline is going to have to deal with all three men simultaneously. Sure enough, the characters head towards a common destination, and their respective counselors — Charlie confesses his soulless lawyer’s morally questionable redemption; Carl and Charlie to unknowingly help her transform Randy’s shack into the house of her dreams — and she’ll use whatever advice from a psychiatrist (Reba McEntire — appearing to play her character’s career).

Despite Sinomatic’s shortcomings, I wouldn’t count them out yet. Their music may mature on future CDs, as they branch out and write lyrics on topics other than their girlfriends. It’s also possible that their music could become mainstream. While many people will deny liking mainstream music because it’s mainstream, it’s clearly not the same as that of the typical manipulative whore role. I’d rate Sinomatic as my best random find since Under the Cherry Tree. If you’re looking for quality lyrics, look else-

help her transform Randy’s shack into
the house of her dreams. Most of the film hops between the three male leads relating their personal Jewel, an unexpected guest, a hit man shows up at the last confrontation. Make sure you pay close attention to all three stories so this final scene makes sense. I was eating up the symbolism.

Kudos to the casting agent for nailing all the male roles. Dillon easily pulls off his type-

BJECT of woe with a seamy heel in his posh car, Randy “rescues” Jewel with a shot out of a plunger to entertain some frat boys, his lawyer-cousin Carl (Paul Reiser) catches an eyeful of Jewel scoping out the joint. While, a hammer-drummed Carl does nearby in his posh car, Randy “rescue’s” Jewel from a violent altercation with her tough-looking boyfriend (Andrew Dice Clay, an unfortunate leftover from the 1980s). Jewel easily convinces Randy to take her back to his dilapidated house for a romp in the sack. In lieu of postcoital bliss, however, she reveals that her seduction is a ruse to get into his house so she’ll “boyfriend”. Utah can rob him. Utah Shan has big up with a big gun and is agi-

ted to discover that there isn’t much to steal at Randy’s, place. Randy mentions the bar safe and they journey with Randy at gunpoint to retrieve the cash from McCool’s. Somehow Utah ends up dead on the floor by the bar… and Jewel holds the smoking gun.

A shaken but unharmed Randy decides to call the cops and then somewhat reluctantly agrees to cover for Jewel. Charlie (John Goodman), the police detective, arrives on the scene and unsuccessfully covers the crumbling evidence of professional cool at the sight of Jewel. For the time being, though, she goes home with Randy. Their relationship becomes more and more twisted as Randy is forced to partici-

pate in Jewel’s seduce-and-steal schemes to help her extricate her 20’s. As the plot unfolds, her ultimate goal is not money but the house of her dreams — and she’ll use whatever means (or men) necessary to reach it. When Randy’s uselessness runs dry, she branches out and uses her formidable skills of seduction to persuade Carl and Charlie to unknowingly

tracks, including “Seven Days”, are more orig-
inal and show promise to actually redefine rock as Sinomatic claims to desire. The addi-

tion of a violin in this song is a nice touch, though. The song possesses a violin solo, and

display against the unlikely event that Sinomatic gains mainstream acceptance.

Sinomatic’s weak links seem to be their lyrics and slower songs, such as “Leave Me Tomorrow.” I would expect the band to show more musical skill in these slower numbers, but they don’t. While none of the positive aspects of their CD might very well be the credit of their producer, I would expect Sinomatic to put in a great performance with three guitarists, their live performances should be able to match the effective layering heard on the CD as a new band with a new audience to impress. Unfortunately, they don’t seem to be coming to Boston anytime soon. However, if you happen to be around the midwest during the next month, you can find them touring with Buckcherry.

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THEATER REVIEW

‘Grand Duke’ A Charme
True To Its G&S Roots, Play Is Well-Acted & Directed

By Lance Nathan
class writer

The Grand Duke, Presented by MTG
Produced by Gary Zacheiss ’00, Directed by David Jedlinsky ’89

O n May 3, 1901, MIT produced the Grand Duke, presented by MTG, with an all-student cast of undergraduates and graduates. The production was directed by David Jedlinsky ’89, and produced by Garry Zacheiss ’00. The Grand Duke, a revival of the operetta by Herbert d’Indy and Charles Lecocq, was performed as a part of the MIT student opera series. The production included a mix of professional and student performers, with a cast of 20 actors and 10 musicians. The production was held in the Kresge Auditorium on the MIT campus.

The Grand Duke is a light-hearted operetta set in the Grand Duchy of Pfennig, a fictional kingdom based on the United Kingdom. The story revolves around the ill-fated love affair between the Duke Rudolph and the Princess of Pfennig. The play was directed by David Jedlinsky ’89, and produced by Garry Zacheiss ’00.

The production was well-received by the audience, with many noting the strong performances by the cast. The sets and costumes were praised as well, with the audience noting the attention to detail in the production. Overall, the production was a success, with many looking forward to future productions of the MIT student opera series.

THE ARTS

FILM PREVIEW

‘AI’ In the Works...

Haley Osment, Media Lab Bigwigs Discuss Film

By Erik Blankenheim
class writer

S tudents and press were treated to a fresh, lively discussion on artificial intelligence (AI) in adulation of ‘AI’ – the latest film from Steven Spielberg. The discussion was held on Monday evening, May 7, 2001, in the Kresge Auditorium.

The discussion was held in response to the release of ‘AI,’ a film that explores the potential of artificial intelligence and its impact on the human psyche. The discussion was moderated by Lance Nathan, a class writer for the Tech, and featured several prominent figures from the MIT Media Lab, including Arthur Dunlap, David Poland, and Daven Petrie.

The discussion was intended to provide an inside look into the creation of ‘AI,’ as well as to explore the potential of AI in the future. The discussion was well-received by the audience, with many noting the thought-provoking insights provided by the panelists. Overall, the discussion was a success, with many looking forward to future discussions on the topic of AI.

THE TECH

Page 9

May 4, 2001
The following movies are playing this weekend at local theaters. The Tech suggests seeing 

<http://www.boston.com/> for a complete list of times and locations.

- Amores Perros (★★★★)
  - This is the film’s setting. Mick Croc-hunter Mick Dundee and the only thing at local theaters.
- The following movies are playing this weekend

- Blow Dry (★★)
  - Johnny Depp plays George Jung, the ambitious young capitalist responsible for creating the Colombian cocaine drug trade. Nick Cassavetes’ and David McKenna’s script seems to overly sympathize with Jung and omits the ruthlessness commonly associated with cocaine trafficking. However, director Ted Demme’s biopic rises above its own shortcomings. With a great deal turned in by Depp and a supportive role from Ray Liotta, Blow does deliver and is one of the better family-friendly films available in current release. — Joseph Benfluft
- Tom Green plays Gordon (not Freddy) in Freddy Got Fingered.
- This movie is an extension of the successful finger-flicking comedy that won the hearts of audiences around the world. In this follow-up, Gordon (played by Tom Green) returns to his hometown, where he’s asked to sit in the living room as a last-ditch effort to save his family. Gordon, played by Chris Rock, is a clueless and irresponsible young man who finds himself embroiled in a botched diamond heist with the chaos of world-class criminals. The film provides plenty of action while the story and characters take a back seat. — JG
- Bridgejones Diary (★★★)
  - Starting Renée Zellweger, Colin Firth, and Hugh Grant, "Bridgejones Diary" is an entertaining screen adaptation of Helen Fielding’s book. For any gig that has ever struggled with weight, cooking, or men, this movie is a good laugh and shows what one often would like to say but refrain from saying. However, if you’re in the mood for a large amount of action or very deep drama, don’t choose this movie. — PHY-Hua Hwang
- Cast Away (★★)
  - All the physical courage and technical accomplishments of Cast Away are not enough to balance its unwieldy structure and make it anything but an extended catalogue of human miseries. Just like the central Tom Hanks performance, it is conscientious and elaborate — and surprisingly joyless and little fun to watch. — Vladimir Zelensky
- Chocolat (★★★★)
  - A novel opens a chocolate shop during Lent in a small French village. She fights the puritanical mayor while serving her friends a heavenly slice of sin. Juliette Binoche, Judi Dench, and Johnny Depp score in this scummensitious tale of romance and food. A word of caution: make sure you watch this movie on a full stomach. Because you’ll want to gorge yourself on Godiva afterward. — Mike Hall
- Crocodile Dundee in Los Angeles (★★½)
  - Paul Hogan returns as Mick Dundee, the croc hunter, and the only thing different this time out is the film’s setting. Mick deadpuns his way through all the LA hot spots like the paramount out of water. Again, fans of the popular original Dundee flick (s) may

- Enemy At The Gates (★★★★)
  - This movie is a combination of an epic war story and a tense game of the hunter and the hunted, as Jude Law and Ed Harris play opposing Russian and German snipers, respectively, in World War II. Joseph Fiennes acts as the Russian press officer who makes a legend of Vassili Zaitsev (Law) and brings him to the attention of the German army, as well as forming part of a love triangle between Zaitsev and female sniper Tania (Rachel Weisz). This is a tale of truth, tragedy, and tension. Those disturbed by graphic violence will not want to see this. — RH
- Freddy Got Fingered (★★★)
  - A bizarre, incompetent son, Gordon (Tom Green), steals his father’s job, hires, wild animals, and shocked people in his hilarious, action-packated quest to please his slightly disfigured, controlling father (Rick Toms). Fingered makes for a must-see for fans of Green’s television show, which is essentially duplicated in the movie. — Sandra Chang
- Heartbreakers (★★★½)
  - Sigourney Weaver and Jennifer Love Hewitt star as a devilishly crude mother-and-daughter coming team. The mother hooks a rich bachelor, marries him, and catches him in a compromising position with another woman (her daughter). Acted poorly, written decently, the only merit of the movie stems from its unethi- doxo and frighteningly unbelievable theme. — Devdoot Majumdar
- Memento (★★★★)
  - Christopher Nolan’s “Memento” is a puzzle box of a movie, breaking up its narrative and shifting in it time, and is superbly successful in putting the audience in the same frame of mind as the ticking bomb of a protagonist, who is pursuing a criminal while suffering with memory loss. Top-notch suspense, dark comedy, and abundance of meaning make this a movie to be remembered. About half of the cast of The Matrix appears in colorful supporting parts. — VZ
- The Mexican (★★★)
  - The quest for a sought-after object is usually filled with excitement and heartbreaks along the way. The Mexican is filled with Julia Roberts, a gay kidnapper, and Mexican thieves. Overall, it is a great comedy that is light on an action-packed plot and character development. Though full of laughs, the film will leave you wanting more. — Jacob Benfluft
- One Night at McCool’s (★★★)
  - Liv Tyler shines as a seductress with an unexpected ulcerative humor who brings passion, poignancy, and excitement into the lives of three very different men. — SC
- Snatch (★★★½)
  - Madonna’s new baby Guy Ritchie, bolstered by the runaway success of his first feature film, Lock, Stock and Two Smoking Barrels, can hardly be blamed for sticking to a successful formula — take roughly six Tarantino-esque criminals, throw in a touch of wry British humor, and mix. This fantastical entertaining movie, which deftly mixes a bizarre plot with the chaos of underground boing, is a must-see, especially for anyone unfamiliar with Ritchie’s first film. — RH
- You Can Count On Me (★★★)
  - Winner of the 2000 Cannes Grand Jury Prize, this is a poignant film about a sister and a brother. Offering provocative writing, sincere acting and engaging editing, this film treats you like a friend who’s been inadvertently asked to sit in the living room as a family drama begins unfolding. The characters are real and their challenges tangible. — EB
On The Town

A weekly guide to the arts in Boston
May 4 – 11
Compiled by Fred Choi

Send submissions to st@thetech.mit.edu or by interdepartmental mail to "On The Town," The Tech, 1200-483.

The Psychedelic Furs, the band which started "modern rock" back in the '80s, play at Avalon on Saturday May 12.

The Tech
the crass rat

SO I WENT TO THE MED CENTER TO GET MY COUGH CHECKED OUT...

ARE YOU KIDDING? THE MED CENTER IS SUCH A WASTE OF TIME...

WELL, THE GOOD NEWS IS THEY SAY MY COUGH IS NOT SERIOUS.

THE BAD NEWS IS APPARENTLY I'M ACTUALLY PREGNANT...

well that's the same depressing thing it meant all summer!

Mat and Solar

WHO'S YOUR DADDY?

THEY'RE SORRY, IAN. I DON'T KNOW THEY CAME.

WE'RE PRETTING NOW FOR SCHOOL...

IS HE A DUCK?

I DIDN'T MIND YOUR BRUSH WITH MY BRUSH ROSES, THAT MIGHT HAVE BEEN A LITTLE RAW.
Crossword Puzzle

"Dude...I'm gettin' some fat f--kin' hits on this sh--!"
8:00 p.m. – Ballroom Dance Lessons. Info: F. Tess 1 at 1 p.m., Bolero 2 at 2 p.m., Waltz 3 at 4:30 p.m. Free social dancing from 3:30-4:30 p.m. $1 to $5. Room: Sala de Puerto Rico. Sponsor: Ballroom Dance Club.

2:00 p.m. – The Grand Duke. MIT Gilbert and Sullivan Players production, the 100th anniversary of the show’s U.S. premiere, on May 4, 1901, at MIT. $9, $7 MIT affiliates and senior citizens, $6 students. Room: Sala de Puerto Rico. Sponsor: Gilbert and Sullivan Players, MIT. 7:00 p.m. – LSC Presents: Cast Away. Tom Hanks gives an Oscar-nominated performance as Chuck Noland, a FedEx employee who is stranded on a deserted island after his plane crashes during a storm. With only a volleyball for companionship, he constructs a makeshift boat and leaves the island, hoping to return to his sweetheart Kelly (Helen Hunt) and resume his life. $2.50. Room: 10-250. Sponsor: LSC.

8:00 p.m. – Dream Dancer: Fantasy of a soul moving between cultures. Directed by Badal Sircar. With music by Jay Swarup. $8, $6 students and senior citizens. Room: Wellesley Chapel. Sponsor: Toons.


3:30 p.m. - 4:30 p.m. – Energy quantification for Yang-Mills fields and harmonic maps. free. Room: A-159. Sponsor: Department of Mathematics.


5:30 p.m. - 6:30 p.m. – Investigative Bible Discussion. Worked-up Students who are curious about Who is Jesus?, and How is He relevant to the my today? That’s you, join us for an interactive session through the Bible about Jesus. free. Room: Student Center Private Dining Room 2. Sponsor: Graduate Christian Fellowship.

Tuesday, May 8

12:00 p.m. - 1:00 p.m. – Telephone and Voice Mail Quick Start. If you are new to MIT or want to learn more about the features on your telephone and voice mail, this class is just what you need. Attendees will learn what features are available on different phones and classes of service. You will also be able to try features on your phone if you have one available. 

4:00 p.m. - 5:00 p.m. – Real-Time Monitoring of Infrastructure through the Web. free. Room: 13-2137. Sponsor: CME Colloquium Series. Department of Earth, Atmospheric, and Planetary Sciences.

3:30 p.m. - 4:30 p.m. – Civic Environmentalism: Democratic Pathways to Sustainability - A Roundtable Series. Moderated by Senior Advisor for Climate Change Performance at MIT, Professor Jonathan H.cburne. free. Room: 13-2137. Sponsor: Department of Urban Studies and Planning.

2:00 p.m. - 3:00 p.m. – Civic Environmentalism: Democratic Pathways to Sustainability - A Roundtable Series. Moderated by Senior Advisor for Climate Change Performance at MIT, Professor Jonathan H.cburne. free. Room: 13-2137. Sponsor: Department of Urban Studies and Planning.
HOLDING OUR OWN

toons

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at mit:
Saturday, May 5 at 7:30pm in 10-250

at wellesley:
Friday, May 4 at 7:30pm in the Chapel

free admission

www.the-toons.com
ask@the-toons.com
hands sculpture
"building self; building community"

dedication ceremony
Tuesday, May 8, 2001
5:00 p.m.
Religious Activities Center - MIT Bldg W11

hands sculpture
Exploring themes of community
several hundred members of the MIT
community made plaster casts of their
hands in the fall of 1998. These
decorated and inscribed hands were
sculpted into an eight foot tall globe
which was exhibited at MIT and
Wellesley College. The project was
facilitated by collaborative artist
Sasha Bergman-Leichtstein.

In the spring of 2001, several dozen
of these hands have been recruited
by Sasha onto a wall relief sculpture
to be hung permanently in the MIT
Religious Activities Center.

remarks by
Lisa Gould
Sloan Fellow, MIT Sloan 77-78, MA
Former member, MIT Board of Overseers
Robert Randolph
Senior Associate Director of Liberal Life

reception follows
Join us for a light pizza dinner
following the dedication

sponsored by
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The Sloan Subject Prioritization System
Bidding Dates for Fall, 2001 Classes

http://sloanbid.mit.edu
Leave password field blank, create new password under ‘Personal Information’

Institute-wide bidding for Sloan courses:
Opens 9:00 a.m., Friday, May 11
Closes 5:00 p.m., Friday, May 25

Waitlist-Only Round for closed classes:
Opens 9:00 a.m., Monday, July 23
Closes 5:00 p.m., Tuesday, September 4

Waitlists for closed Sloan classes are part of the Course Bidding System, beginning
in Round II.

Successful bids appear on your Registration Form on September 4 and
will be posted on the bidding website as of July 24 -- write down your
password to check results!
gram will be provided by Campus Outreach Services, Inc. The organization, which is dedicated to increasing rape awareness among students, provides similar programs for first-year students at several other colleges as well.

Iyengar hopes the program will both reduce the occurrence of rapes and increase the rate at which they are reported.

According to a U.S. Naval Academy study of schools that used this program, immediately afterwards, there is usually a "dramatic increase in the number of rapes reported," Iyengar said. After that, she said, the frequency of reports flattens out to a lower level.

"It will make an environment where survivors can come forward," Iyengar said.

"Among the top 10 colleges in the country," she said, referring to the U.S. News and World Report rankings, "the only other school that doesn't have some kind of rape awareness program [for first-year students] is Caltech. Everyone else has some kind of program."

The cost of the program will be about $1,000, plus the cost of training students to facilitate the discussion groups. All of the funding for the program will come from the Orientation budget.

Two years of work pays off

Jennifer A. Erwin '02, a member of Stop Our Silence, said the effort to include rape awareness programming in orientation began two years ago, in conjunction with the Social Justice Cooperative. The effort was revived this year with the participation of several other interested students.

Orientation used to include skits intended to catalyze discussions about various issues, including rape, but the skits were removed from the Orientation program in 1996, Iyengar said.

Orientation 2000 included two similar programs, addressing the issues of sexuality and alcohol. The alcohol talk, the older of the two, was introduced in 1998; the sexuality talk was first included one year later.

Students, faculty support plan

Over 600 members of the MIT community, including Dean of Science Robert J. Silbey and Institute Professor Noam A. Chomsky, signed a petition early this term asking for mandatory rape awareness programming during Orientation.

"Statistically, rape peaks in the first three months of college," Iyengar said. While many issues are important to address during orientation, Iyengar feels that a discussion of sexual violence would potentially have the greatest impact.

"I'm glad to see the administration putting this amount of importance on sexual violence," Erwin said. "It shows they take sexual violence seriously."

Koestner more than expected

"Katie Koestner is more than we expected we'd get, because she's a very expensive speaker," Erwin said. "Since we were kept in the dark [about the administration's plans], we were kind of expecting the worst."

A victim of date rape during her freshman year at the College of William and Mary, Koestner went public with her story soon afterward. She is the founder of Campus Outreach Services. Her presentation includes an account of her experience and a discussion of rape and sexual violence.
Read the Tech

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**TICKET INFORMATION FOR TECH NIGHT AT THE POPS**
ON SALE TODAY @ 10 am - THE SOURCE
2 TICKET LIMIT PER PERSON - UNDERGRADUATE SENIORS ONLY - MUST PROVIDE ID
TICKET PRICES: $55/FOREST, $40/LINE BALCONY, $20/ST DECK BALCONY
OTHER SENIOR WEEK EVENT TICKETS AVAILABLE AT THE STUDENT CENTER MAY 7, 8 AND 11
AND AT SENIORS' MAY 8TH IN LOBBY 306 & THE BUSH ROOMS (2-607)

SENIOR WEEK 2001
Thompson Hall - June 3 - Mystery Night - June 4 - Boston Red Sox, Boston Sports Expo - June 5 - Boston Pops - June 6
Tampa Bay Rays at the New England Aquarium - June 7 - Charles River Campus - June 8
Infinite Corridor Auction - June 9 - Laid Back @ the Pops - June 10 - Green Grow - June 11
ALL EVENT INFORMATION AVAILABLE AT https://web.mit.edu/seniorweek

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DEADLINE MONDAY MAY 7
Greek Economy ‘Success Story’

Greek Minister, from Page 1

In his speech, he tried to extract lessons from the EU’s experience, and the economic reforms Greece made to join it. From 1974 to 1994, Greece’s economy was “in a pathetic state,” Papantoniou said. Its inflation rate and budget deficit were high, and annual growth was only at one percent. Through a series of economic reforms, Greece has been able to eliminate its budget deficit, lower inflation, and its economy has been growing at five percent annually. This turnaround has allowed Greece to join the EU.

“Greece can be seen as a success story ... but it has been an uphill struggle,” Papantoniou said. While some nations have been prevented from joining the EU by economic reasons, other countries such as Turkey and the Ukraine have not been able to join because they have not made adequate civil rights reforms, he said.

EU faces several challenges

“The challenge for Europe is to be more than the addition of its components,” Papantoniou said. “There’s the danger of uncoordination” within the EU, he said, since there are 12 governments and national banks instead of one. “The more integrated [the participating countries] are, the faster reform will move.”

The EU may also help standardize its member nations’ practices as well. One problem with European business are the high labor taxes, Papantoniou said. Uniform standards may help ease these taxes and promote growth.

Papantoniou proposed a solution that would promote consistency and coordination within the many governments of the EU. He meant to see a European Commission, a Council of Ministers, and a European Parliament with enough power to speed along decision making.

Papantoniou said that “[the current] European Parliament does not have real legislative power.” The strengthened Parliament would be similar to America’s House of Representatives. The Commission to our executive branch, and the Council to our Senate.

“The central government, which would include politicians from all member nations, would enhance the efficiency of decisions and increase its democratic legitimacy,” he said. “The direction of political change should go to homogenization,” but making one European super-state is going too far, Papantoniou said. Instead, making the EU more like a federation of states would be an appropriate move.
In a time of growing doubts about the economy, EMC Corporation Executive Chairman Michael Ruettgers gave an upbeat speech about the future of high-tech business.

About a third of Wong Auditorium was filled to hear Ruettgers apply the lessons he has learned from managing information storage company EMC to other new economy businesses.

“Lots of people left business school to make their fortune … like a gold rush,” he said. While some of these people have become rich, he added, the dot-com industry as a whole has been struggling lately.

Many of the technology companies that fail, Ruettgers said, follow the downward spiral of growth, surprise, panic, and then decline.

Even EMC, which had $8.8 billion in revenues last year, has been careful to manage its success, he said.

“Always examine your successes and your failures,” Ruettgers said. Many dot-com companies became profitable early on, but did not know how to maintain it and fell into what he called the “graveyard of the complacent.”

Ruettgers, who graduated from Harvard Business School, was recently named one of Business Weekly’s top 25 executives.

Storage needs increasing rapidly

The need for information storage is increasing rapidly as companies use more and more digital data, Ruettgers said. From this he predicts large growths for EMC’s products, which are hardware and software data storage devices.

“As technologies have evolved, an increasing number of people have gained access to information, Ruettgers said. The move from mainframes to personal computers to networks has dramatically increased the amount of information available and the number of people who can see it. In the future, technologies could “allow virtually everybody on Earth to access information,” Ruettgers said.

In the future, people may not connect to the Internet in the same way. “We believe in the future, most of the way to access information will not be through personal computers, but wireless,” Ruettgers said. This explosive growth leads to a greater demand for information storage. Ruettgers said some companies tell him that their storage needs have been doubling every year and are expecting to maintain that pace.

EMC focused, redirected efforts

In 1989, Ruettgers said he realized that EMC was spreading itself too thin. It was spending too little in research and development to develop a wide variety of products. That year, EMC had a $20 million loss.

The company decided to abandon some of its markets and focus on others, even though the changeover was difficult.

“Each time we made a transition, we lost some people,” Ruettgers said. He said it is important for businesses to stay focused and yet be aware of the future. That is why EMC has a rolling planning process instead of just compiling one annual budget, Ruettgers said.

Finding skilled employees difficult

One of the main challenges Ruettgers named in running EMC is finding committed and competent employees.

He said that the difference between the best employees and average employees is 50 to one. The challenge, then, is to find those exceptional people.

Ruettgers said it is not enough for employees to be smart and to work hard. Instead, EMC has developed a 12 point list of qualifications that their employees must have, including a sense of urgency, initiative, and adaptability.

Ruettgers also advised future employees to choose their employers carefully. “The first one or two bosses you have will greatly affect your career,” he said.

The lecture is part of the Industry Leaders in Technology and Management series, which is co-sponsored by the MIT Office of Corporate Relations and The Center for Technology, Policy, and Industrial Development.

Michael Ruettgers answers questions after his speech in Wong Auditorium. Ruettgers, the Executive Chairman of EMC Corporation, spoke to a small crowd Wednesday afternoon.
Advisers Discuss Government’s Approach to Science

Science Advisers, from Page 1

growing responsibility to explain it to those who don’t, particularly in getting media attention.

History of the future

The morning was filled with former Science Advisers to the President, including William G. Golden, who first recommended the creation of the position to President Harry Truman. Golden set the tone of the day well when he said, “We are concerned with the history of the future, rather than the history of the past.” Indeed, many of the descriptions of the ups and downs of science policy in Washington that followed were framed as lessons rather than just narratives.

Edwin David Adams (1970-73) explained how only around half of all governmental S&T initiatives can be expected to succeed, and how for many, the success or failure is politically driven. He explained the need for S&T to take a more active role in civic society, and called on “all good scientists to come to the aid of their country.”

Science and meaning

Science Advisers

The keynote address was given over lunch by Harold T. Shapiro, President of Princeton University and member of PCAST from 1990-1993. Shapiro explained that often the basic human need for myths and stories is overlooked. When science disrupts those myths, which for many help make the world understandable and give their life and work meaning, those people feel cut off from human memory.

To that end, Shapiro believes there must be “serious conversations between people who understand science, and people who are anxious.” When he says “serious,” Shapiro said it means that both sides go in open to changing their mind.

Future perfect

Rita Colwell, director of NSF, opened the afternoon program by addressing the failure of the U.S. engineering ethics is similar to that of doctors (causes no harm), no such guidelines exist at the macro level (how to distribute limited resources like organs, medicine, and time). Wulf believes such guidelines will be increasingly necessary as more systems become complex beyond predictable behavior.

Calling for a revolution in academia, Daniel Hastings, Professor of Aeronautics and Astronautics and director of the Technology and Policy Program, gave his vision for training interdisciplinary engineers to cover the technology/policy interface.

MIT Biology Professor Phillip A. Sharp expressed concern that federal research money for the life sciences had doubled in recent years, while money for other basic research had remained stagnant. While this was noted by several others throughout the day, Sharp noted the close connection between science research and technological advances, and how the latter can end up a bottleneck for the former.

David Clark, one of the chief architects of the Internet at the Laboratory for Computer Science, explained how the 1970s were spent getting the structure of the Internet right, the 1980s were spent making the technology/policy interface.

In the middle of the morning, former member of the House of Representatives John Porter (R-III., 1980-2001), gave his perspective on science in the federal government. He could only think of Thomas Jefferson and Herbert Hoover as presidents with a scientific background. Porter calculated that only 15 of the 435 members of Congress and three of the 100 members of the Senate currently have a scientific background. He also noted that President George W. Bush has not yet named a science advisor, despite having already made decisions on several scientific issues.

“All of this leads me to my conclusion.” Porter said “If Congress and at times the executive branch — if government — will not come easily to science, science must come to government.” He then explained the need for scientists to take a more active role in civic society, and called on “all good scientists to come to the aid of their country.”

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Future perfect

Rita Colwell, director of NSF, opened the afternoon program by addressing the failure of the U.S.
Be kind to others.

Crossword Solution from page 13

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Men's Tennis, Track
Take NEWMAC Titles
Several Athletes Are All-Conference Picks

By Roger F. Crosley

Two MIT teams returned from the New England Women's and Men's Athletic Conference Championships with NEWMAC titles. The women's tennis team won the tournament, and the men's track and field team took first place in the men's championship.

The women's tennis team won all six matches to win the tournament. They defeated Boston University, 6-3, in the final, after winning the first two doubles matches and three singles matches.

The men's track and field team scored 124 points to win the title. They were led by Sean J. Montgomery '04, who took the 1500 meters with a time of 3:52.31, and the 5000 meters with a time of 14:21.47. Montgomery also placed second in the mile run.

Both teams were impressive, and their success is a testament to the dedication and hard work of the athletes and their coaches.

Men's Ultimate Team Finishes Third, Will Travel to Regionals at Dartmouth

The MIT men's ultimate team finished third at the New England Regionals, held at Dartmouth College. They will travel to the New England Regionals, held at Dartmouth College.

The team played well throughout the tournament, winning all four of their matches to advance to the semifinals. In the semifinals, they faced Brandeis University and lost 14-13. In the consolation game, they faced Tufts University and won 13-11 to take third place.

The MIT team played well throughout the tournament, and they will take this momentum into the regionals. They will face strong competition, but they are confident in their abilities and will do their best to advance to the nationals.

Women's Crew vs. BU and Radcliffe

The MIT women's crew team competed in the New England Championship Regatta. They finished second in the Varsity 8 race, behind Harvard. The team was led by captain Michelle Goldhaber and coxswain Bill Littlepage.

The team raced well throughout the regatta, and they were able to hold their own against the strong competition. They won all of their races, and they were able to improve their times.

The MIT team will take this momentum into the regionals, and they will be looking to use this experience to perform well in the nationals.