Caffeine may inhibit nicotine

By Amy S. Garin

Caffeine inhibits some physiological responses to nicotine, an MIT research team has discovered.

According to the team's report, which will be published in the September issue of Proceedings of the National Academy of Science, adenosine (a substance found in tissue and blood) enhances nicotine's effect as a hypertensive (blood-pressure-raising) agent. Caffeine inhibits the action of adenosine.

Red W. von Borstel, one of the members of the research team, explained: "The information should not provide a "false sense of security. Caffeine may protect against nicotine's blood-pressure-raising effects, but it will certainly not have a protective effect against many other potentially harmful effects of cigarette smoking," he explained.

By Diana Ben-Aaron

Senior House residents are designing a pilot program to help combat drug abuse through peer support and internal referrals. Chief of Campus Police James Olivieri and Senior House president Stephen T. Lentz '86 said yesterday that the program is targeted at nitrous oxide use. Lentz said.

"Senior House housemasters S. Jay and Margaret Kyeser have met with graduate tutors, house officers, and Campus Police to address the problem of nitrous oxide use," Olivieri said. A student living at Tau Epsilon Phi fraternity died from an overdose of nitrous oxide, five students were expelled from Senior House for nitrous oxide use, and two Senior House residents were arrested by Cambridge police for possession of the drug this spring, according to Olivieri.

The meetings produced a set of guidelines for implementing a drug policy, Olivieri said. "This dorm is particularly interested in the development of a workable, reasonable policy," he commented, noting that the guidelines could be "a good reference document for other dorms."

"The problem is, once an MIT employee — such as a tutor, house manager, or housemaster — sees a student taking drugs, MIT is liable for the student," Lentz said. He added that if the student who died from springing from an overdose of nitrous oxide had lived in a dorm and a tutor had known he was taking nitrous, MIT could have been sued. On the other hand, Lentz noted, tutors live with students. "If they were policemen, it would be a pretty bad scene," he commented.

In its present draft form, the proposal calls for a written notice to the student from the Institute. Said the report, which will be published in the September issue of Proceedings of the National Academy of Science, adenosine (a substance found in tissue and blood) enhances nicotine's effect as a hypertensive (blood-pressure-raising) agent. Caffeine inhibits the action of adenosine.

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By Christopher Y. Kim

The construction work to widen Amherst Alley began last week.

By Diana Ben-Aaron

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Researchers discover caffeine-nicotine link

(Continued from page 1)

feine to block adenosine's effects.

The adenosine molecule is formed from adenosine-tri-phos-
phate in a reaction that provides fuel for the cell. It is released by
the cell if cellular metabolism is impaired.

Adenosine binds to receptor sites on the surface of certain
cells and in the brain, inducing a sedative effect, and possibly pro-
voking the brain with information about the energy levels of the
body. It is thought that caffeine also binds to these sites, blocking
the binding of adenosine, and

Traffic rerouted during Red Line renovations

(Continued from page 1)

westbound bus and taxi lanes be-
diverted to Broadway, he noted. Dur-
ing only the south sidewalk avail-
able for pedestrians. T eso contin-
ued. When the project is com-
pleted, Main Street will be
one-way for eastbound
(South Boston) traffic, with special
westbound bus and taxi lanes be-

ners: $175 per month is
available through the Combined
Jewish Philanthropies. Preference
will be given to Jewish students
from the greater Boston area.

The Tech
TUESDAY, JULY 3, 1984
PAGE 2

FALL SEMESTER
STUDY AND TRAVEL
Study and travel from September through December 1984 in ENGLAND, FRANCE, SPAIN, ITALY and ISRAEL, with internationally respected professors and experts in each country.

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notices

Georgia Tech
Announcements

The National Endowment for the Humanities has announced a unique grants program for indi-

viduals under 21 to spend a sum-
mertime of $12,000 during the summer of 1985, researching and writing a humanities paper under the close supervision of a humanities scholar. The applica-
tion deadline is Sept. 15, 1984.

For guidelines, write to Younger Scholars Guidelines CN, Rm. 426, The National Endowment for the Humanities, Washington, D.C. 20506.

The Peace Corps is offering skill-
training for programs utilizing
graduates with mathematics and science minors. Peace Corps vol-
unteers serve for two years. Dur-
ing their service they receive a generous living allowance, paid travel, training and health care.

A post-service readjustment allowance of $175 per month is paid to each volunteer. For infor-
mation on Peace Corps service, call 223-4409 or 5366, or write
PEACE CORPS, 1465 McCormic
POC, Boston, MA 02109

The Jeffrey M. Frank Scholar-
ship for 1984-85 is currently available through the Combined
Society Internships for students who are interested in summer ex-
erience with various aspects of the new science affairs society. A copy of the directory is available at the Placement Office, Room
12-170. For more information on the directory, call 223-4666.

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12-170. For more information on the directory, call 223-4666.

International Student ID cards (ISIC) are now available in the ofice of Career Services, Room
12-170. The ISIC can be an in-
valuable asset to the student who will be studying or travelling abroad. Foreign students holding F-1 visas are also eligible for the ISIC. For more information con-
tact: Marianne Carlo, Foreign Studies Coordinator, Office of Career Services and Preprofes-
nional Advising, Room 12-170, ext. 3-4735.

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How many pounds of concrete are in the Grand Coulee Dam?

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ADVANCED INFORMATION SYSTEMS
World

Soviet Union offers, then rejects — The Soviet government yesterday rejected Washington's acceptance of its Friday offer to participate in talks aimed at limiting space weaponry. The rejection was based on the White House's desire to link these discussions with a resumption of nuclear arms negotiations from which the Soviets walked out last November in Geneva. Western diplomats remain hopeful the arms limitation talks can proceed after more negotiations between the two superpowers.

Iraq claims more naval hits — Iraq claimed Sunday to have bombed and sunk five ships in the Persian Gulf, as well as downing one Iranian F-14 jet. Iraq and Iran have also renewed ground fighting in their four-year-old war, which has so far claimed an estimated half-million lives.

Lichtenstein grants vote to women — In a referendum Sunday, the men of Lichtenstein voted 51.3 percent to 48.7 percent in favor of women's suffrage. The European constitutional monarchy is roughly the size of Washington, D.C. and has a population of 26,000.

Nation

NOW alerts Mondale — National Organization for Women president Judy Goldsmith warned Sunday that there could be a floor fight at the upcoming Democratic convention if likely presidential nominee Walter F. Mondale chooses a man running mate. She also said that NOW expects Mondale to pledge to appoint a Cabinet at least half female, as well as to appoint a certain number of women to the Supreme Court. About 400 NOW members will be delegates or alternates at the San Francisco convention, which opens July 16.

Local

Harvard drops Fog bridge plan — Facing opposition from members of the Mid-Cambridge Neighborhood Association, Harvard has abandoned plans to construct an enclosed bridge over the Fog Museum and its recently constructed addition, the Arthur M. Sackler Museum. The proposed design, which would have crossed Broadway, featured a large round window in its center described by City Councillor David E. Sullivan as "a Cyclops staring at the neighborhood."

Andy's Chili marked five years at MIT — Tomorrow will mark the 56th anniversary of the arrival of Andy and his chili cart at MIT. Andy was expelled from the Charles River Esplanade during Independence Day festivities in 1979, after which he crossed the Charles in search of a place to rest his weary dogs.

Weather

Hot, more chances for showers — Today and tonight will be clear to partly cloudy, warm and humid, with highs 86-90, and lows in the high 60s. Tomorrow will be sunny and hot with highs 88-92. There is a slight chance of thunderstorms both tonight and tomorrow evening.

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The eleven-week course meets from 5:30 pm to 7:30 pm in four convenient locations: North Attleboro and Waltham, Tuesday evenings beginning August 7th; Boston and Worcester, Wednesday evenings beginning August 8th.

Class size is limited, so don't delay. To register, or for more information, call (617) 237-8289 or (617) 329-8990.
**Column/Diana ben-Aaron**

**MBTA renovation no primrose path**

The MBTA closed the old Harvard Square subway station on March 24, 1979. That day, MBTA workers and riders were treated to a sign hung near the front of the station: "March 24: Don't get caught by surprise" (these days, it would say: "Don't get caught by surprise!""). At the time, many riders dismissed the closure as a temporary fix to appease political pressures and rationale for the Red Line Extension and explaining the interim rerouting of traffic.

There are three pictures inside the brochure. One is an engraving of the Harvard Square subway kiosk in 1912 when it was built: a round, handstand-like pavilion. Another is a drawing of the kiosk in 1928, covered by the Red Line structure — the kiosk in 1928, covered by the kiosk in 1928. The third shows the kiosk in the middle of a patio.

According to the brochure, construction would be finished and the Red Line extension would be open in "the autumn of 1982. Eventually, Harvard Square will have spacious platforms, win- dows and wider sidewalks; there will be more shops and restaurants. With less traffic, the air will be cleaner. The result will be a more pleasant place to walk and a little more space to think.

The Tx public relations prose continued: "Two things will not change. First, Harvard Station will not be closed. Instead, for the next year and a half, both Harvard Station and the Harvard Square entrance to the station will be open. Two, construction will not (emphasis theirs) disrupt Harvard Square during weekdays, rush hours, 7 a.m. and 4:30 p.m."

Anyone who’s looked at Harvard Station in the last few years knows construction wasn’t finished in 1982; anyone who’s looked at Square this week knows it’s not finished yet. For many months more, the regularity takes the Red Line knowing the two-stations-for-the-price-of-one offer didn’t hold excep- tion for about a year and a half, beginning in 1981. Anyone who ever goes anywhere near Cam- bridge knows that, while construc- tion may not actually be going on during weekday rush hours, it manages to disrupt lives and traffic for nothing efficiently anyway.

When Harvard’s class of 1983 graduated, their campus press re- marked that a pity it was that they would remember only construc- tion when they thought of Harvard Square. They had never seen it any other way. Now an- other class has entered the same conditions, and it will be at least 1988 before memories of piles and dirt vectors and compost are complete.

Last month, construction be- gan in Kendall Square. Streets have been blocked by ma- chinery is moving in, and imme- diately beside buildings are being reeled for the wreckers’ ball. These people may have al- ready completed by early 1986.

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**Column/Simson L. Garfinke1**

Yes, you can fight Tech Square

I’m not sure how many people saw it, but flying over Killian Court during Commencement was a small airplane carrying a banner reading "MIT OUT OF CAMBRIDGE/PORT".

At the time, I simply dismissed it as the ravings of the unin- formed fighting back against the trappings of the growing techno- logical age. I have seen their leaf- lets and read their propaganda. These people who de- mand MIT build low-income housing, say that all renovations should be marked what a pity it was that we, the members of the tech- nological elite, were bringing to the area? Couldn’t they see with their own minds how much we were benefiting them? All they had to do was to look at Cam- bridge Center, or Tech Square, or MIT itself, to see what we had done. Could there be a better way to rejuvenate the area? That was the way this applied and came to MIT. Living and working here reinforced my atti- tudes. But now, when I think of the thousands of people who leave this place every year with this attitude implanted and strengthened in them, I’m not quite sure that we are doing the right thing. Perhaps some moder- ation is called for.

I started to see things differ- ently a few weeks ago when I was walking back to the Institute from Inman Square for the first time. I was walking past houses. A little old lady living in a little house had a little white dog running around her yard. A little grass was growing, most with some grass on the sides and in front, though some were built up to the sidewalk. Some of them were very old, and some of them were not so old. But they all looked like homes.

They weren’t townhouses, built identically and in long strips as if they had been extruded from a high-pressure hydraulic press.

We were their high-rise apartment buildings where people were piled atop each other as high as the building code and the capital of the developer permitted. No, the houses near Inman Square were more casual than that, from a simpler time. These homes made me think of my house, the place that I left be- hind, in Haverford, Pennsyl- vania. A house in a neighborhood where the buildings and the trees coexisted, complementing each other. The place I grew up.

But by the time I realized this, walking down Broadway, I could see Draper Labs in the distance, and Tech Square on my right. There was new construction go- ing up across the street from Draper — though it was far from finished, it looked like the begin- nings of Draper II. A skeleton of a bridge connecting the two buildings had already been built across Broadway.

As I walked back to MIT through Tech Square, I saw hund- reds of Yuppies, many of whom were trying not to look like Yupp- ies, each with a little security tag. It was as if they all belonged to a prestigious club and they wanted to be able to tell the non-members from the non-members outside the clubhouse. We live in a strange and won- ders world. But perhaps we should more about it more often, because I go about striking out and changing everything in sight. I am now certain that secured security tags, buildings with windows that don’t open and “us versus them” attitudes are steps in the wrong direction.
The Discoverers, by Daniel J. Boorstin, Random House. 584 pp., $20.00. This is an in-depth review of the lives and contributions of many of the central figures in the history of science. What makes this book so fascinating is that the author succeeds in making the known and the unknown so fascinating that the reader is left with a sense of wonder and awe at the boundless creativity of the human spirit.

The Discoverers is a history of man's search to understand the world and his place in it. It is a history of discovery, of the noble and adventurous animal capable of surmounting the obstacles that lie in his path. The story is told through the lives of the great scientists and philosophers, their ideas and their contributions.

The book is divided into four "books," each of which deals with a single epoch: ancient, medieval, renaissance, and modern. Each book is further divided into chapters that focus on particular areas of science or philosophy. The result is a comprehensive and engaging overview of the history of science.

The author, Daniel J. Boorstin, is a respected historian and scholar, and his expertise is evident in the thoroughness and accuracy of the book. He manages to make the complex ideas and concepts of science accessible to a general audience, without sacrificing depth or accuracy.

One of the strengths of The Discoverers is its emphasis on the interconnectedness of different areas of science. Boorstin shows how the discoveries made in one field often have implications for others, and how the work of one scientist can influence the work of another. This is especially evident in the sections on the Renaissance, where the cross-pollination of ideas between art, science, and philosophy is highlighted.

The book is not just the enthralling subject matter or its unusual structure. What makes it work is Boorstin's style. It is an easy read, with a conversational tone that makes the reader feel as if they are sitting down to a chat with a knowledgeable and witty guide. The author's love for the subject matter shines through, and it is contagious.

The Discoverers is a valuable reference tool. Better to have it on the shelf than to press it to the press.

The book is great summer reading. While not yet in paperback, it will be worth the investment and will make a handsome and useful addition to your science library.

Scott L. Chasen
The stars' performances are mediocre. I was astounded by Frances Lee McCain's portrayal of Billy's mother; the hard glint in her eye as she tosses one evil gremlin into a food processor, and another into a microwave oven, made me believe she fought gremlins in her kitchen every day. Unfortunately, her role was peripheral.

Zach Galligan, who portrays Billy, and Phoebe Cates, as Billy's girlfriend, are the only two-dimensional characters in the film. One has to wonder if someone, as talented as Spielberg would come up with interesting teenagers for a change.

The most interesting aspect of Gremlins is the contrast between what one imagines a professional ghost catcher, or, if you will, parapsychologist has been bounced from to a very low level on the vinyl record and should be completely absent from the Compact Disc. Unfortunately, the record was printed on very flimsy vinyl, perhaps to promote the sale of the Compact Disc, which is nearly twice as expensive.

Simone L. Garfiner

### Two movies that make Pacman look like a video game

#### Ghostbusters

Columbia Pictures, produced and directed by Ivan Reitman, starring Bill Murray, Dan Aykroyd and Sigourney Weaver, rated PG.

New York City is in trouble...big trouble. You see, it's haunted. Luckily for the people of New York, Alaree, a team of parapsychologists have been bounced from every school in the country, and decided to set up shop on their own in professional ghostbusting. The plan was to be a showcase for the stars to deliver, and decided to set up shop on their own in professional ghostbusting. The plan was to be a showcase for the stars to deliver, and

### The treatment of the fourth ghostbuster

Gremlins, produced by Steven Spielberg, Frank Marshall and Kathleen Kennedy, directed by Joe Dante, starring Zach Galligan, Phoebe Cates, Austin Hoyt, Polly Holliday and Frank Lee McCain.

If anyone gives you a "maggaw" (a cute, cuddly-beige creature), read these three rules when caring for it: don't shine bright lights on it, don't pet it, and don't feed it after midnight. The story of Billy, the standard all-American boy, and what happens to his family, is not to mention his high school, is not the place to solve a maggaw just before Christmas.

During the course of the movie, Billy breaks all the rules, spends a good deal of time trying to undo the damage, and almost loses his life in the process. The plot of Gremlins will probably remind you of other movies you've seen.

#### Synthesis sound does not a record make

Happy Bastille Day!

The Boston Pops will present a concert on the Charles River Esplanade at 8 p.m., following the performance of Tchaikovsky's 1812 Overture. 266-1077.

### Repeat performances of the Boston Pops July 3 concert

July 5

The construction, the one gets the impres- sion that a couple of people got together, wrote a few lines, wrote them for the stars to deliver, and then wrote a movie around those lines. Fortunately, the point of this film is not the movement or direction of the plot, or the depth of the characters; it is to provide a showcase for Bill Murray and Dan Aykroyd. The movie will surely please most fans of Sat- urday Night Live, and was one as one of the best releases of the summer.

Anne Prince

#### July 3

The Boston Pops will present a concert on the Charles River Esplanade at 8 p.m., following the performance of Tchaikovsky's 1812 Over- ture. 266-1077.

July 5

Repeat performances of the Boston Pops July 3 concert. See listing above.

### SCC presents Rocky III in Lobdell at 9 p.m., July 11 and 18. 53 Marlborough St. $1.50 for non-members/$1.50 for members. 266-4451.

### July 6

SCC presents Rocky III in Lobdell at 9 p.m. June 30, July 7 and 8, 5 p.m., 53 Mar- lborough St. $1.50 for non-members/$1.50 for members. 266-4451.

### For a change from SCC, the French Li- brary's Le Million (The Million), directed by Rene Clair, 1951, 89 min. Repeat perfor- mances July 7 and 9, 7 p.m., 53 Mar- lborough St. $1.50 for non-members/$1.50 for members. 266-4451.

### Galapagos

Dover's Enchanted Islands, lecture and discussion hosted by Frank Eary, Director of Scientific and Technical Illus- tration at the Rhode Island School of De- sign. At the New England Aquarium Aquatorium, 7 p.m. Free. 724-8850.
Fireworks in the East and West

Boston Symphony Orchestra, conducted by Seiji Ozawa, in concert at Tanglewood, Sunday, July 1.

Banchetto Musicale, at the New England Aquarium, Sunday, July 1.

The Boston Symphony Orchestra opened their 1984 season at Tanglewood with an all-Beethoven program under conductor Seiji Ozawa.

The first work, Beethoven's Piano Concerto No. 2, came across equally at best; its dynamics seemed overemphasized and strings lapped into extended passages of blandness. The performance was not, however, without its moments: soloist Rudolf Serkin's deeply introspective reading of the first movement cadenza was an exercise in pure beauty. And the second movement without its moments: the performance was not, however, without its moments: soloist Rudolf Serkin's deeply introspective reading of the first movement cadenza was an exercise in pure beauty. And the second movement

There are pointers throughout the Fantasia to a new age, his back to a classical era as well as forward... The performance suggested touches of Mozart.

The Tanglewood Festival Orchestra, under John Oliver, in concert at Tanglewood, on July 8.

Banchetto Musicale this year provided the same entertainment. Neither Handel's Concerto Grand in G, Opus 6, No. 1 nor the Water Music Suite in F which preceded the fireworks worked at all well; the amplification necessary to reach the large open-air crowd was poorly done, making the ensemble sound tinny and thin. String playing was not at all times of the elegance we have come to expect of Banchetto, and there were definite problems in the horns.

The Fantasia was provided with an elating development of brilliance. From a little rumble on the basses to a light and wonderful flute repertory of a melody reminiscent of Paganini we were thrust headlong into the ecstatic light of the heavens; Rudolf Serkin in firm control of the piano part was in fine balance with an orchestra propelling by a relentless drive to joy, that end attained on the pronouncement of the words Citer-Gantri (divine favor) by the Tanglewood Festival Orchestra, under John Oliver, in top form and further glorified by the rhythmic push of an inspired BSO.

If it's evening and it's July it's time for fireworks over Boston Harbor, and Banchetto Musicale this year provided the same entertainment. Neither Handel's Concerto Grand in G, Opus 6, No. 1 nor the Water Music Suite in F which preceded the fireworks worked at all well; the amplification necessary to reach the large open-air crowd was poorly done, making the ensemble sound tinny and thin. String playing was not at all times of the elegance we have come to expect of Banchetto, and there were definite problems in the horns.

But the Fireworks Music itself was played with great verve and poise: majesty, regal from start to finish, and synthesized with an astounding fireworks display; it showed Banchetto and Boston at their best.

The Tanglewood Festival continues through August 26 in Lenox, Mass., a bit over two hours away on the Mass Pike. Of special interest to the MIT community is the July 29 concert at which Professor Horowitz's Symphony No. 1, commissioned by the Boston Symphony Orchestra for its centennial, will be performed. Banchetto Musicale will perform works of Bach, Telemann and Mozart on July 8 at the DeCordova Museum in Lincoln.
Sports

Column/Robert E. Malchman

The Ivy League goes public TV

"News item: In the wake of the Supreme Court's ruling prohibiting the NCAA's exclusive network contract, the Ivy League announced it has signed with the Public Broadcasting System to televise its football games.

"Good evening, and welcome to Masterpiece Football. I am your host, Allan Cooke. Tonight we six of Ivy League action.

"In this week, you will recall, the heroic anti-heroes from Providence College were outshined by evaluation.... The Lads from Up Chuck Medium Brown in a scoreless tie. And Cornell's Big Green settled for a... Ah... Allstar. Last week's... a... A... truth is a far cry from this simplistic inference: The men from Harvard are a paradox, a herculean anti-heroes from Providence College were outshined by comparison..."