Nitrites studied as cancer agents

By Gordon Hunter

"I feel we know so many dangerous things in our environment that we should do what we can to reduce the risks," declared Professor of Nutritional Pathology Paul Newberne of the department of nutrition and food science, who directed the study linking nitrites to cancer at the US Food and Drug Administration (FDA).

As study director, Newberne designed all of the experiments in the project and had to view all of the results of 1,200 rats involved for the 2,000 rats involved in the study. He also had the ultimate responsibility for the project and had to go to Washington to testify on the findings.

Nitrites are added to processed meats like hot dogs, bacon, canned ham and cold cuts as a preservative to protect against botulism and food poisoning. It is also the curing agent which gives the characteristic flavor and red color to cured meats. There is as known substance for nitrite to protect against botulism.

The move to immediately ban all nitrites, that started when the study's findings first became public, was part of what Newberne sees as a "hysteria in this country concerning cancer". He fears this hysteria not only because of the immediate danger of banning possible cancer-causing agents without examining the effects of such a ban, but also because of the backlash that usually follows the hysteria, which in this case, might prevent the discovery of a cure for cancer by withdrawal of research money. He sees this backlash already starting as more and more people are saying "what's the use of studying it, everything could cause cancer."

The main weapon of those who are trying to ban carcinogens is the controversial Delany Amendment. It basically says that any substance that causes cancer in any animal in any dosage must be banned. Newberne pointed out that the phrase in the amendment reading "when used in appropriate tests" is usually ignored, making it very ineffective.

We sought to consider modifying the Delany Amendment in such a way that scientific judgment can be exercised over the results of scientific studies", suggested Newberne. He stated that this would be "a matter of changing the legal language" and would allow for greater flexibility and judgement in any action taken.

Research on carcinogenic food preservatives are a major concern for nutrition scientists. Prof. Newberne of the Dept. of Nutrition studies the effects of nitrites involved with meat processing. (Photo by Gary S. Engelson)

FCC grants WTBS wattage increase

By Ken Hamilton

WTBS, MIT's non-commercial community radio station, has been granted a power increase to 200 watts by the Federal Communications Commission. The decision by the FCC came after WLSR INC, a corporation representing students at the Lincoln-Sudbury Regional High School, withdrew their application for a 10-watt FM station at WTBS's frequency (88.1 MHz). This marked the last hurdle in WTBS's efforts to increase its power over the last six years.

The greatest prospective change due to the power increase will affect the station, according to Bob Connolly, WTBS's program director, besides the extension in its service area by about 30 miles along the Route 128 belt, the increase in time devoted to public affairs programming. Connolly expects the 200-watt station to include at least 19 hours of such programming per week in its broadcasts over the year, 5 hours per week in order to fulfill FCC requirements for "A" stations. Much of this programming will be scheduled between 3:00 and 6:00pm beginning before 1980. Connolly stated that with interviews with representatives of local organizations serving the community in the broad-cast area will comprise a large portion of the time devoted to public affairs programming. WTBS is also committed to programs directed specifically at the MIT community. In its higher power applications, the station noted its commitment to "specialty programs" not available to other stations. Second, what is being built is a proposed WTBS service area. Connolly looks forward to operations of the station 24 hours per day by 1980.
**World**

Pope Dead — Pope John Paul I died on September 28 after only 34 days in office. The Pope, who was elected in the shortest conclave in history, apparently died of a heart attack.

**Mideast**

Mideast Negotiations — Egypt and Israel have agreed to reopen peace negotiations in Washington on October 12. Other Mideast nations have expressed mixed reactions, generally pressuring Egypt to seek a more definitive settlement, rather than one just between Egypt and Israel.

**Campus**

Burton resident in stable condition — Eric Johnson, a Sophomore in Burton House, was listed in stable condition yesterday at Boston City Hospital. Johnson suffered a broken right thigh and injuries to his right shoulder, head and abdomen Saturday after he had fallen and become trapped under an outboard train at the Aquarium MBTA station.

**Sports**

Yankees Win — The Red Sox fell to the Yankees in the playoff game yesterday. The game, which was watched by many in Lobbies 7 and 10, ended with a final score of 5-4.

---

By Bruce Nemnich

Editor's note: Bruce Nemnich "82 is among the group organizing the revival of the Tech Show.

There will be an organizational meeting of Tech Show sponsored by the Musical Theatre Guild for all those interested in any aspect of the Show this Thursday, October 5 at 7:30pm in room 407 of the Student Center.

Tech Show, a unique concept in MIT student theatre, was an original full-length musical conceived, written, composed, produced, directed, and performed by members of the student body. Originated in 1949, it grew to become a prime focus of MIT student life. By the 1960's the Show had grown worthy of extravagant $30,000 budgets (in 1920 dollars), rented downtown theatres such as the Schubert and toured in a private train. By the mid-thirties financial problems had beset even the Tech Show, and it was discontinued.

Tech Show was reborn about fifteen years later and rose once again to prominence in the 1950's. And again, in the sixties, it faded away due to a shift of attention to another stage, the Viet Nam war and general student political unrest. The last production was "Tech Show 1969."

There have been some indications within the last year of renewed interest in Tech Show. Because of this interest, the organizational meeting has been scheduled. Its aims are twofold 1) to gauge the specific types of interest in the Show, and 2) to develop some concrete plans for the future. Of particular need is any multicraft future production attempt, large or small, are managerial-type people, playwriters, composers, performers and directors interested in such a production.

It should be emphasized that the immediate future of Tech Show does not automatically imply a full-scale production. In fact, such a thing could be quite dangerous without first building the specific talents and confidence a production of this sort requires. Therefore the goals of the near future are likely to be much smaller, on the order of workshops or small experimental productions of some type. An IAP mini-show this January is a good possibility.

Hopefully, if all goes well, Tech Show will reoccupy its position as a major campus event in years to come. In order to help it off to a good start, everyone with any interest related in any way to Tech Show is encouraged to attend the meeting and share their ideas.

---

The Red Sox fell to the Yankees in the playoff game yesterday. The game, which was watched by many in Lobbies 7 and 10, ended with a final score of 5-4.

— Charlie Brown
Meat additives carcinogenic

(continued from page 1) convert some nitrogen compounds or even the nitrogen in the air into nitrosamines or nitrites. The danger, according to Newberne, that whatever our bodies gain in extra nitrites from additives in processed meat might overcome the body defenses and cause cancer. This extra amount has been estimated by the FDA to be 20 percent of all the nitrites that enter or are produced in the body.

Newberne's research has also shown that certain vitamins such as ascorbic acid (vitamin C) neutralize the nitrites so that they can not be converted to nitrosamines, but that they also neutralize the effects against both carcinogens.

Newberne is also involved in other areas of cancer study. He is Dept. Heads are picked slowly

By Lenny Martin
Editor's note: This article, the first in a three part series on Department Heads, focuses on how they are chosen and how they view their jobs.

Choosing a new Department Head in a school at MIT is a long, tedious process. It typically involves extensive research leading to a recommendation by a search committee, appointment by the school's Dean and final approval by an administrative committee composed of the President, Provost and Chancellor.

Head of the Department of Mechanical Engineering Herbert Richardson '53 was recommended for his post by a search committee having two faculty members from each of the department's three divisions and two from outside the department. William Hawthorne of Cambridge University's Department of Mechanical Engineering served as a consultant. The Dean of the School of Engineering asked all mechanical engineering faculty members to provide inputs, and the search committee interviewed most of them personally.

The Head of the Department of Civil Engineering, Frank Perkins '55 is an example of one who had clearly stated that he did not want the position when it became available initially. Perkins, however, was asked by the Dean of the School of Engineering to be active as well as the search committee chairman — logical choices he feels, since he did not want the job, but, ironically, they led to his changing his mind.

He gained awareness of support for him throughout the faculty and discovered that he felt reasonably comfortable as Department Head. These factors led to Perkins' accepting the job after being recommended by the rest of the search committee.

Department heads made mostly positive comments about their jobs. Kenneth Hoffman, Head of the Department of Economics since 1971, said, "I still view it as a big challenge." Head of the Department of Aeronautics and Astronautics, Jack Koepnick, said that he considered it an honor to succeed people like Jerome Hunsaker, one of aviation's founders, along with the Wright Brothers, and Charles Draper, founder of the Draper Laboratory. Edgar Brown, Head of the Department of Economics said, "You're kind of keeper of what you think the department wants you to do."

The one typical complaint, on the other had, was the dissatisfaction over reduced involvement in teaching and research. Head of the Department of Physics, Herman Feshbach pointed out, "My central aim in life is to do research and educate the young."

EE, Material Sciences & Physics Majors

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Photo-magazines get a new LIFE

By Bob Wasserman

"Life is back" proclaims the first page of the October 1978 issue of the revived Time-Life, Inc. publication, and indeed it is, complete with all the color photos and an excerpt from Mario Puzo’s new novel, "Fool’s Die." Life is making a comeback since it ceased regular publications in 1972, and from all indications, it will probably be around for a while.

Life's demise earlier in this decade is attributable to several events. First of all, the growing impact of television has taken much of the impact of photo-magazines and placed this power in the hands of television's immediate competitors. Life makes a stab at TV in its assessment of the modern reality of the 1970's: "Bomberized daily by television pictures bounced off satellites..." It is a sophisticated audience, hard to surprise. However, we have infused LIFE-style, and that is the biggest question which confronts the revitalized magazines.

This brings us to readership, advertising, and money. Many of LIFE's advertisers switched to television spots in the 60's and 70's, following the attention of the nation's consumers. Life seems to have found a good number of advertisers for their first issue, including car manufacturers, cosmetics companies, Scott distributors, and even McDonald's. These advertisements take advantage of Life's large page size and glossy print for effective and attractive ads.

Life’s new motto is undoubtedly the "Power of the Picture," and the magazine is brimming over with them. Financially though, one has to wonder about the number of photos. One of the biggest problems facing photo-magazines is the cost of the high quality paper needed for photos, and Life’s newsworld price is only $1.50. In comparison, Time sells for $3.00 and Sports Illustrated for $2.50. Life has arrived at this price point by asking the only freelance photographers, but a rate hike may come at the first signs of the revival.

The best pieces in this first issue are two photo-essays. The cover story on bullfighting is good, if not spectacular, and should be a popular feature after the Atlantic crossing of the American balloon this summer. That is the biggest question which confronts the revitalized magazines.

by Kent C. Massey

Richardson corrects

To the Editor:

I would like to comment on Bob Wasserman’s Something Else column in Friday’s The Tech, September 29. The table below gives the target for each of the last six years, the year’s opening enrollment, and the number of new freshmen that enrolled in each of the past six years. I have also included the figure we speak of as “summer melt” (the number of students that say they will enroll but don’t).

<table>
<thead>
<tr>
<th>Year</th>
<th>Target Enrollment</th>
<th>Difference</th>
<th>Melt</th>
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<tbody>
<tr>
<td>1973</td>
<td>900</td>
<td>93</td>
<td>+73</td>
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<tr>
<td>1974</td>
<td>1000</td>
<td>+36</td>
<td>46</td>
</tr>
<tr>
<td>1975</td>
<td>1100</td>
<td>+24</td>
<td>40</td>
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<tr>
<td>1976</td>
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<td>-66</td>
<td>75</td>
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<tr>
<td>1977</td>
<td>1073</td>
<td>+73</td>
<td>47</td>
</tr>
<tr>
<td>1978</td>
<td>1058</td>
<td>+8</td>
<td>42</td>
</tr>
</tbody>
</table>

The Academic Council sets the target (historically each year) and just before spring break we offer admission to a group of applicants (1980s) that we estimate will supply us with the desired class. Yield, the percent deciding to enroll, fluctuates from as low as 48% to as high as 57% in this period. It’s an interesting challenge even though we have a waiting list to work with until the end of May. After that I feel is important to give an answer to those whose test scores have kept on tender hooks too long already. From them we have no control, as I believe the figures above will confirm.

Sincerely,

Peter H. Richardson
Director of Admissions

Admissions not at fault

by Lisa Konstad

Administrative Assistant in the Residential Program Section
Office of the Dean for Student Affairs


Advisors: President: L. W. Young; Managing Editor: Lee Lindquist '79; Business Manager: Volume 98, Number 33, Tuesday, October 3, 1978

The Tech is published twice a week during the academic year except during the summer, by the students of the Massachusetts Institute of Technology, Cambridge, Mass. 02139. Sports: Sports Editors: Tom Curtis '80, Gary Engelson '80, Associate Sports Editor: Bob Hoyt '81, Robert Nathaniel '81. Staff: Greg Stave '79. Sports DEPARTMENT

Advisors: President: L. W. Young; Managing Editor: Lee Lindquist '79; Business Manager: Volume 98, Number 33, Tuesday, October 3, 1978

PAGE 4 THE TECH TUESDAY, OCTOBER 3, 1978
feedback

technique photos vital

the Editor-
v's the Editor-in-Chief of the 79 and one of the
ners of the Managing Board
1979, I felt compul-
Mr. Kesten's letter
in the 9/29 issue of The

I do agree with Mr. Kesten on
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and urge anyone at MIT
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, that is our only point of

I take exception with his mark that there is "... a
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were attempting to produce
book with a predominance of
Mr. Kesten calls "merely ar-
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would not have living

Groups, Senators, Activities,
Sports, or Journal sections. These
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were scored at least 70
as far.

Technique attempts to present
view of MIT life. An important
of the "MIT experience"
the city environment. Since
located in a primarily in-
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and a depressed one at that,
that look at the
neighborhood surrounding MIT
and Haymarket, the shopping
any MIT students, also con-
tributed to the "... 
and the life and activities of a
class." Since there is such a wide
in the experiences that con-
tribute to the year at MIT, the
best we can do is try to present

some of the more
photographable. Nobody on the
staff believes the book is perfect.
(If it were, why would we be try-
ing again this year?), but we do
try to produce a product that we
can be proud of.

I confess, we were occasionally
ited by mere artistic con-
considerations in some places. Our
Free Form section is where we
print the photographs that we
couldn't fit into an essay or sec-
tion, but thought merited a place
in the book. If we offended Mr.
Kesten by our flamboyant display
of artistic sensibility, we are indeed
very sorry. Please, if you want to have a
way in what goes into the year-
book, get involved. We can
always use the help. Express your
opinions through action — get in-
volved in Technique.

Bill Hofmann
Editor-in-Chief, Technique 1979

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everyone in sight, all over again.
The score is just plain gorgeous,
a marvel in its reach, in its moods,
in its borrowed Gallic vitality
and in its World War I razzma-
tazz. 'King of Hearts' is going to
be loved by a lot of people."
— Kevin Kelly, Boston Globe

"King of Hearts" is a spectacular, flamboyant and grandiose pro-
duction of a charming fantasy.
It's great!"
— Mary Stewart, WBZ-TV

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To the Editor:

We came in search of insight and what we got was ignominy. Those who went to hear James Tisdale attack the Bakke decision and defend affirmative action in his informal debate with Nathan Glazer were sorely disappointed. Instead of outlining, as did Glazer, the contrasting Supreme Court philosophies of the anti-Bakke forces, Nor does it ever since, etc. etc. Yes, yes, yes. Though all of that is true, none...
Wellesley Juniors show their talents

By Joel West

The Wellesley Junior Show, playing to a packed Alumni Hall last weekend, was not a play of any lasting merit — few of them, if any, are. The Young and the Redless (or All My Red Things) is certainly wanting in character development and plot; the show is a hack, pure and simple. The story revolves around a future U. S. President, Scarlett O'Henly (Fay Wigrizer), who is (not surprisingly) a woman of considerable power. As in last year's Who, the play features a future Southerner, the stage work was equally competent. The plot: the show is a hack, pure and simple. Wanting in character development and acting, the plot: the show is a hack, pure and simple. Wanting in character development and acting, the plot: the show is a hack, pure and simple.

The Wellesley Junior Show, playing to a packed Alumni Hall last weekend, was a remarkable experience. As in last year's Who, the play features a future Southern socialite. The German-accented Secretary of State (Leslie Nelson) is similar. As in last year's Who, the play features a future Southern socialite. The German-accented Secretary of State (Leslie Nelson) is similarly, Ginny Fowler shines as Secretary O'Henly's Cabinet. As in previous Cabinets, this one has its share of mediocrity: Clark Jarvis, as the Secretary of the Interior (decorating, that is); he is outstanding. Without this, one would be unaware of Wigrizer's fine voice, which is unimpressive for the things they have stolen for their own career as a detective. The songwriting was especially good, and most of the orchestra performed well under Weinstein's talented baton, the stage work was equally competent. The defects in the show are due to the limitations inherent in the Junior Show format. Good performance in "Recollections," in which the characters appear to be their limited selves, is rather overbearing throughout the remainder of the play.

The 1978 Junior Show Cape Committee, appropriately named the Rhode Island Reds, has something to be proud of and will be able to reach high office or world recognition. The songwriting was especially good, and most of the orchestra performed well under Weinstein's talented baton, the stage work was equally competent. The defects in the show are due to the limitations inherent in the Junior Show format. Good performance in "Recollections," in which the characters appear to be their limited selves, is rather overbearing throughout the remainder of the play.

A caring for the "T" passengers unaware that the Red Line has been stolen, are "Stranded at Park Street." The 1978 Junior Show Cape Committee, appropriately named the Rhode Island Reds, has something to be proud of and will be able to reach high office or world recognition. The songwriting was especially good, and most of the orchestra performed well under Weinstein's talented baton, the stage work was equally competent. The defects in the show are due to the limitations inherent in the Junior Show format. Good performance in "Recollections," in which the characters appear to be their limited selves, is rather overbearing throughout the remainder of the play.

A caring for the "T" passengers unaware that the Red Line has been stolen, are "Stranded at Park Street."
Beavers sunk by BC in water polo tourney

By Gorden Haff

Please before poetically the largest crowd to watch MIT water polo in at least four years, the var- sity squad finished in a disappointing fourth in the MIT Invitational Water Polo Tournament held last weekend.

On Friday night, MIT led off the weekend with a 12-4 loss to Army, the eventual winner of the tournament, and the number two team in the Mid-Atlantic con- ference last year. Throughout the game, MIT failed to pressure the Army attack and thus permitted the Cadets to get off shot after shot. At the same time, consistent pressure by the MIT attack got nowhere.

Saturday started off on a better note with the Tech squad nettling the ball in the net. Trinity was outhustled and outplayed by MIT, which got all the shots it wanted. With a goal to tie the score, was not at all indicative of how the teams played, however. The Tech squad put the ball in the net.

Finally the MIT squad broke through with just 2:15 left to play as Zanda Flerl '79 hit a perfect pass over the heads of the Trinity defensive line for the win. Bill Wulf '82 who pushed the ball past the charging goalie for the equaliser.

The fury MIT attack continued until the end of regulation time but to no avail, and the game was sent into overtime. In the first of two 10-minute overtime periods, MIT again controlled play almost completely, but none-theless Trinity managed to go ahead 2-1 on a well-placed shot with just two seconds to go in the first period. Inseult was added to injury in the final period as Trinity scored once more with 1:28 to play, to seal MIT's fate.

The game as a whole was an exercise in frustration for MIT. The booters dominated every aspect of the game but couldn't come through with goals when they had to. Virtually everyone who played performed very well, and forwards Wulf and Flerl, along with backs Luiz Beza '89 and Rob Currier '79 had outstanding games. Goalie Tom Smith '79 made several clutch saves throughout the game. The fall-back in excellence in its usual role as the stabilizing force behind the MIT attack.

It was in all a very well played game on behalf of MIT, but the team was the victim of hard luck all day long. The booters' frustrating failure to capitalize on

Volleyball rebuilding

By Richard Aicher

The graduation of six starters from the 1977 Division I Mas- sachusetts state championship team has left a gaping hole for coach Dave Casotan. To fill, returning letter winners Adra Smith '80, Kathy Cheron '80, and Karen Samuleson '81 have had precious little time to work with their new teammates, including a large number of freshmen. In a tightly fought contest, MIT's experience contributed to a 10-15, 15-15, 12-15 loss Wednesday night to returning Division II champs Salem State.

Salem led early in the first game, but the Beavers fought back to an 1-10 deficit. After a long deadlock, Salem pulled ahead to win the first game, 15-10.

MIT came right back, however, and ran up an 11-3 lead in the second game. The women showed superb teamwork, both physically and verbally, by executing fine set-ups and by capitalizing on Salem mistakes. With victory in sight, 'Tech suddenly began to get very sloppy and Salem rallied. Salem tucked seven un-answered points and then went ahead, 15-12. MIT regained serv- ice with a shot by Barbara Hoerz '82. With Smith serving, Chrien sent the ball over the net, and the women showed...