Bio company agrees to joint venture in cell production

By Kenneth Snow

Flow General Inc. of McLean, Virginia, has entered into an exclusive agreement with MIT to continue work on a patented method for mass production of mammalian cells. The commercial process was developed at MIT by researchers in the Department of Nutrition and Food Sciences.

Under the terms of the agreement, Flow will pay a minimum royalty of $400,000 each year to MIT. Mr. J. Hall, president of Flow General, came to MIT on Friday, May 1, to deliver the first installment in the agreement, a check for $100,000, to President Paul E. Gray '54.

As part of the negotiation, MIT has agreed that after the inventor's royalties are deducted, 50 percent of the money from Flow General will be given to the Department of Nutrition and Food Sciences to establish a fund to support projects in the field of cell biology and biotechnology, according to an MIT spokesman.

The cell culture method was invented by Dr. William G. Thilly 67, associate professor of genetic toxicology, and Dr. Daniel K. Wang 59, professor of biochemical engineering.

The two students, Dr. David W. Levine 39, then a graduate student, and Jason N. Wong 75, a technical assistant in the Department of Nutrition and Food Sciences, also worked very heavily on this project. Thilly stressed that the work done by Levine and Wong was indispensable.

According to Thilly, Flow General stock was selling for $4.50 a share in 1976. Last week, after the announcement, the stock split after surpassing $300 a share. Thilly explained that the idea for the project came from a Dutch (please turn to page 5)
Press cited for science policy contributions

By Sarah Bingman

"We are sorry he's leaving; we wish him well and the best of luck to him and the [National Academy of Sciences] for the next six years," offered Francis E. Low, Provost and moderator of a symposium in honor of Frank Press last Friday in Kresge Auditorium.

Press, Institute Professor, former Head of the Department of Earth and Planetary Sciences, and former Director of the Office of Science and Technology Policy and science advisor to former President Carter, will assume the presidency of the National Academy of Sciences (NAS) this July.

John G. Schaefer, Professor of Marine Geophysics, and Irwin I. Shapiro, Professor of Geophysics and Physics, spoke at the symposium on their association with Press as well as their respective fields of research. Jerome B. Wiesner, President Emeritus and Physics, spoke at the symposium, and Science Advisor to former President Carter, will assume the presidency of the National Academy of Sciences (NAS) this July.

"He has done a wonderful job setting up joint programs at Woods Hole and Sherbrooke University," said Schaefer. He also praised the high standards that Press achieved in the department and the Woods Hole program.

Schaefer's talk on plate tectonics was entitled "Oceans and Continents: Similarities and Differences in the Mechanism of Heat Loss," in which he discussed thermal boundary layers and heat convention.

Shapiro thanked Press for his support in research projects, and credited Press with the encouragement for the past 14 years.

"Through a Lens Brightly: Gravitational Images in Space," the subject of Shapiro's talk, concerned images in space caused by massive bodies. Shapiro's speech included the history of the theory and its founders' trials and triumphs.

Wiesner praised Press for his many interests outside of science, his "smiling intellect," and his "many contributions," especially the joint Woods Hole degree program. He recalled that Press decided to accept a professorship at MIT only after "he fell in love with the students" during a visit.

Wiesner noted many of Press's accomplishments with both foreign and domestic governments. Wiesner praised Press for his substantial but not significant." Presently, the store has no definite place at which to relocate.

According to Bruce Pritchard, spokesman for Revolution Books, "For them, it's a small victory, substantial but not significant." Presently, the store has no definite place at which to relocate.

Pritchard noted that when the movers came Monday morning, they removed the red flag from the store. They were asked where they should bring it, they were told to "bring it to Central Square." It was delivered in the square next to supporters of the store. Pritchard noted that the flag is like the issue at hand. "It may temporarily be seized, but the red flag will reappear in the hands of the people." - Kenneth Snow

(Photoby Steve Cohen)
TUESDAY, MAY 12, 1981 THE TECH PAGE 3

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**News Roundup**

**World**

Socialist wins presidential election in France — Francois Miterrand was elected President of France yesterday. Miterrand’s victory was seen as the best political shift in France in a generation. Socialist candidate Mitterrand defeated the incumbent, Valery Giscard d’Estaing.

**Nation**

Reagan aides propose guest worker plan with Mexico — The Reagan Administration is considering a guest worker plan under which hundreds of Mexicans would be allowed to enter the country and work on a temporary basis. This proposal is seen as an effort to improve US-Mexican relations, but it has met with harsh criticism from organized labor and many Mexican-Americans. The president has not yet reviewed or received advice on this program.

Format of LSAT to change — Beginning in the summer of 1982, grammar, geometry, and quantitative reasoning problems will be eliminated from the LSAT. Some political leaders reacted strongly toward the budget revision that President Reagan announced in February concerning curtailment of US involvement in foreign aid and international scientific programs. These cuts include the international Solar Polar Mission, which was to fly two spacecraft, one American and the other European, to opposite poles of the sun. The Reagan Administration has curtailed the US half of the project, while the Europeans have already spent $100 million.

New budget angers allies by cutting funds for joint science programs — Particularly of American allies such as France, West Germany, and Japan, have reacted strongly toward the New budget angers allies by cutting funds for joint science programs — President Reagan’s White House has told Washington officials that the president plans to reduce the United States’ role in joint scientific programs with other nations. The president has said that the cuts are necessary to achieve budget savings and that they do not reflect a reduction in US commitment to international cooperation in science. The cuts include funding for joint research projects in areas such as space exploration, climate change, and disease control.

**Weather**

Cloudy and cool today with rain showers, stronger and more widespread this afternoon. Highs near 60 with southeasterly winds. Rain tapering to a few showers or drizzle tonight with winds shifting to the southwest. Lows near 50. For Wednesday, partly cloudy to mostly sunny with highs up to near 70. Chance of rain 30 percent today, 50 percent tonight, 20 percent tomorrow.

**McCormick stop for weekend**

By Irene Feng

The popular weekend Wellesley Senate bus will be changed from its current location in front of McCormick to "a more conveniently located stop...probably somewhere down the road." According to President Ananii Chernow, Director of Transportation and Communication, this move was prompted by complaints from the Wellesley student government.

**Mit cell culture method has commercial prospects**

(continued from page 1)

Scientists Toome van Ezel and Ereal used the compound DEAE proximally to grow cells on beads, but marked survival of the compound. The project was catalyzed by President Thilly, who noted that the compound is used in the production of vaccines, hormones, and other products. Thilly noted that the patent is needed in the production of vaccines, hormones, and other products. The patent was held by Salk, noted for the use of the microcarriers, marketed under the name "superbeads," as well as for the process of their production. The growth of large numbers of cells is needed in the production of vaccines, hormones, and other products. Thilly used the Salk vaccine for an example of the prospects for microcarriers. The Salk vaccine was introduced in 1955 and has been widely used in the world. The Salk vaccine is a cheap and easily produced vaccine, preferred by many tropical areas which are currently plagued with a major polio problem. The Salk polio vaccine would alleviate this problem, even though it is presently expensive to produce. By utilizing microcarriers, the Salk vaccine will be made easily available to many parts of the world, according to Thilly.

**Top 100**

For Used

Paperbacks

And Used

Textbooks

Harvard Book Stores

1248 Mass. Ave., Cambridge (Harvard Square)

732 Comm. Ave., Boston (B.U.)
Caring about MIT

It is truly unfortunate that the end of the second term coincides with the beginning of spring. It always seems that the weather gets more and more pleasant as finals approach. Friday, for example, was far too beautiful a day to spend in a library or laboratory.

The weather was better suited to perching on a statue in Killian Court watching the sailboats on the Charles River. Wading in the mud or sunbathing on Kresge Oval were also options for those brave enough to risk being attacked by runaway frisbees. The less athletic, who inclined toward the student guides in cold or inclement weather, might oppose the view of the majority and enjoy being at MIT.

I, however, think the real heroes are the students. Eminent professors are certainly important, and my goal is to show little MIT, however. The difference, I think, lie in caring. Academics are not the sole measure of success at MIT, however. The distinction is an important one. Anyone who spends four years here and leaves with an undergraduate degree has been at MIT. Many students become alumni without ever feeling that they have been a part of MIT, however. The difference, I think, lies in caring.

Caring about MIT does not mean loving every person and place associated with the Institute. It is a much subtler feeling, a type of pride that comes from being a part of an important and interesting school.

I used to be proud to be at MIT because I was getting my education. It is possible, even easily, to brag about MIT without caring for the students who are active in activities or living groups but prefer academics to think deeply. Some time during the past few months I stopped being at MIT and became a part of MIT.

It is not just burned out as their uncaring classmates at the end of the term. The casual student, who dawdles through the second term and leaves with an undergraduate degree has been at MIT. Many students who care very little about their projects, classes, and projects can be merely a glorification of one's presence here. It is truly unfortunate that the end of the second term coincides with finals approach. Friday, for example, was far too pleasant to work at a la carte in dorms.

To the Editor:

With the headline, "US Military Begins to Dismantle," how many of you pay hopes have you been able to see this day? A day when the threat of nuclear holocaust would no longer be an issue, but rather advances in medicine and scientific fields would surround us. The money that would be saved could be put into programs to benefit the country and its people.

This is a great anthropological ideal, but we must ask ourselves one major question. Would this utopian ideal work? If we turn to history to give an answer, we are confronted with countless examples that say it will not work. However, we try to influence and impart the beliefs of weaker parties. We would be overwhelmed with letters, to the Editor:

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Gays reply: homosexuality not a habit

To the Editor:

Mr. Milliron's letter incomes understanding that homosexuality is a habit. The habit is an acquired behavior that is learned. It is a misunderstanding of the issue that Mr. Milliron is making. In the scientific community, there is no evidence to support the idea that homosexuality is a habit. It is a natural human behavior that is present in all societies and cultures around the world.

We should not be trying to change or suppress the behavior of others, but rather we should accept and respect their choices. This is why gay rights organizations have been fighting for equal rights and acceptance for many years. We should not be allowing hatred and prejudice to continue, but rather we should be working towards a future where everyone is treated equally.

Sincerely,
[Your Name]
Many social pressures plague gays

(continued from page 5)

is more than ever that of helping people troubled by their sexuality adapt to same-gender condition, be it exclusively straight, exclusively gay, or something in between.

The social pressures that give rise to Mr. Milliron's article, to "conversion" therapies, to damaged or rejected fraternities, to bashiq queens, and to thousands of other atrocities are a subject for a lifetime study. None of us who are gay will study those pressures out of self-defense, as well as curiosity. Mr. Milliron will eventually grow up to undertake at least a brief study of such things - just long enough to give him an idea of the limits of his learning and the vainness and arrogantly of his ignorance. I would suggest he visit the GAMIT lounge (50-356), to talk with some ordinary people whom he can know are gay (he talks with some of us every day already). I would suggest he read C. A. Trip's "The Homosexual Marble." It contains an interesting chapter in entitled "The Origins of Homosexuality." That is preceded by a chapter entitled "The Origins of Homosexuality.

Straight people are perpetually curious, scared or antagonistic (or some combination thereof) about gayness. Sometimes it surfaces in ugly ways. The head of the present exchange was the Pi Lambda Phi incident. Let it be said to the fraternity's credit that, in a badly besiegged condition, they have responded with very real attempts to understand gay people (and, I think, themselves) better than they presently do. I hope their example will be followed by others.

Mr. Milliron's letter was an interestingly juxtaposed under Rob- \nbe Shreve's letter reminding us that the MIT community is presently "struggling..." with bits of every stripe. Mr. Mil- liron 's is probably still too young to be labelled a real-live bigot, but he is sufficiently naive to be one. His personal belief that homosexuality is natural is an insufficent reason for me to change my innate (not "habitant") condition. In an academic environment less humane than MIT's (almost all are), this letter would be quite ill-advised. Fortunately, the Institute encourages such exchanges as a vital part of the educational process. I hope that, in the next three years, Mr. Milliron will use this educational process somehow to begin to understand both his innate condition, and his better than he presently does; and why he can sign his name freely, but I must think carefully before signing mine.

Nicholas Altenbend

Disarmament may not bring peace or freedom

(continued from page 4)

the ideals and needs of stronger nations, and is that peace and freedom? The Russian invasion of Afghanistan and possible invasion of Poland are prime examples. Does anyone really believe that if we disarm we would be free and able to live in peace? I'll bet the people who scream and cry about disarmament would have the toughest time swallowing communism.

Therefore, the best way to maintain peace is to deter war, and this is accomplished by maintaining a strong military force. However, this does not license us to exert our military force on weaker nations because they do not hold the same views as us. A strong military force is also needed to protect our national inter- ests. An example of this would be World War II. If our country had not had a strong fighting machine during that time Europe surely would have been overrun, and the fall of the US to the "master race" would have been inevitable. Now, I don't know about everyone else, but I never did like the mass purgation of people.

Patrick Robertson '83

Feedback

You've burned the midnight oil and crackedthumb books that you are to remember. The work is done. The papers are in. So now you take a refresher course. The subject; ice cold Dos Equis beer. The uncommon Import. Study a frosty glass. You'll learn it has a rich, amber color unlike any beer. Now test that 85. Bold flavor. You've got to admit. Dos Equis is in a class all by itself.
Mary Chang Restaurant, 447 Mass Ave. (corner of Mass Ave. and Broadway), Boston, MA 02135, Tel: 227-6680

Saturday evening's MIT Symphony Orchestra concert began with Bach's Brandenburg Concerto No. 3 for two violins which was performed by the MIT students, Arthur Hu and David Mcllroy. The orchestra provided a unified sound, with a decisive and clear presence. The resulting effect was filled out with the addition of a few more strings, while still maintaining the same basic style of playing, without the method chosen being quite acceptable.

Arthur Hu developed a beautiful, uncluttered, effortless legato against a compelling richness and richness of David McIlroy, while doubtless making the violin traditional and perfect. His equal: his playing possessed a tone nervousness and sharp, disjointed harshness clearly at odds with the music.

The sound still grinds along and threatens to crash in your ear. (e.g., "The Crusader"), but there's a new feeling in their sound, songs like "Voodoo" and "Can't Feel My Mind" and above all "The Green Door" which BCN vans to play that try with psychedelia like never before. Let's interior in open, open, open, with the internal voices like "What do I feel? I've found it in my vision/But don't ask me what it is/It's a lot like Jim Morrison's cosmic-significance edge."

Things haven't slowed down spiritually — "Jungle Hop" (onwards along with all the Cramps material) — but everything is geared towards the psychedelia mystique and away from the acid punk legend. Psychedelic Jungle could still have been ascribed to the Cramps and back again, steering itself both.

Those who love Chinese food must be overjoyed in Central Square these days. My bet is that they will take their habit somewhere other than the Mary Chang Restaurant.

Mary Chang replaced the now defunct Ion Fong. You wouldn't know it from the decor, however. The problem seems to be that one gets an idea that the restaurant is a kind of joy. Fong just changed her name.

The food finds all over the strangeness. The selection is ... interesting. There are many dishes that one finds such as the Central China Sea of restaurants. Moo shi is filled with pickled bean sauce and hot and sour soup with water chestnuts is a typical example.

Unfortunately, the taste is as unexciting as the selection is interesting. The orange sauce on the orange sauce chicken is bland at best. The kung pao chicken dish carries a more of a stale salt issue than a spicy kick. Moo shi with bean paste is not worth the trouble, and the sweet and sour pork is more sour than sweet.

The box and sauce soup with wontons is a surprising exception. It is not fantastic, but it is a variation of the typical hot and sour soup. It is not worth suffering through the meal that follows, however, unless the food is the service. Few of the help understand English, at least international sign language. If the main dish came any sooner, it would have arrived unserved. The bill and fortunate cookies follow very closely behind the main dishes.

The help has obviously been informed that the plates are to be kept full, a job they pursue with unquestioned enthusiasm no matter what or how they might be in the way. Empty plates and dishes are available before the diners are served. One waits even cleared the table before the meal was served. The diners that would be served.

If you are thinking about a Chinese dinner, stop in at Mary Chang's for soup ... and then go somewhere else.

Mary Chang Restaurant, 447 Mass Ave. (controlled, 11:30-4:30 Sunday to Thursday, 11:30-9:45 Friday and Saturday, later-out service, 6:30-9:30, 11:30-9:00).
Dickson to co-ordinate administrative operations

By Stephanie Pollack

Vice President for Operations William R. Dickson '56 has been asked to co-ordinate the administrative operational duties of all the vice presidents, according to Press. Dickson will be the co-ordinator for all "management responsibilities on the academic side of the house," Press added. He also said the purpose of the change in administrative structure was "to bring those functions together without change to a different person." Press said the reorganization was "to reduce the amount of time I will have to spend on administrative matters but assure that I am involved when necessary." Gray noted that, in the past, any issue which cut across organizational lines had to be handled at the presidential level.

Press to head Academy

(continued from page 7)

Press closed the afternoon with words of deep appreciation for MIT, noting, "This is my home institution, this is where I have blossomed, and if I have done anything, it is because of what MIT has done for me."
Opinions voiced at DSA forum

(continued from page 1)

mark it is totally absurd and obscene that we are here on a Friday night." Weller pointed out that non-students beside the Visiting Committee should not be permitted to attend future meetings of this type because "students are chicks."

Some students noted that the Dean's Office should be an advocate of student opinion. Weller said, "I believe the Dean is isolated from students, too isolated to present student's opinions correctly. What we have here is a dean of student affairs rather than a dean for student affairs."

Another broadly discussed topic was that of MIT's pace, especially that of the freshman year. Michael Lopez '83, said that students can spend eight hours a day on academic work. "As department requirements become stronger," he added, "students become dedicated to their major sooner. Talents and abilities aren't used. We have to sacrifice ourselves to leave early and save money."

Jack Link '83 raised the question of freshman pass/fail, saying that the evaluation system needed to be changed; when he was a freshman, only half of his evaluation forms were returned from instructors. Carola Eisenberg, Dean of the Harvard Medical School and a member of the Visiting Committee, said that only Johns Hopkins Medical School requests MIT freshman grades. Harvard, she said, does not look at them.

Robert Feron, a senior in political science, complained about the freshman advisor system. He said that too many advisors encourage freshmen to get the core courses out of the way and "get a leg up in a department." He added, "Unfortunately, this leaves out education. A student can graduate without having had anything but his major. There should be a much more extensive consultation with student activity leaders as to what role the Dean should perform in this regard."

"One-third of the members of the Committee are corporation members, one-third are by appointment of the President, and one-third are members nominated by the Alumni Association," according to Wesson.

Tell them you're proud — with a card from American Greetings

SCC and the 24-hour Coffeehouse are pleased to announce their semi-annual CAFFEINE SALE

Coffee and tea 10c from Wednesday May 13 to Wednesday May 20 from 7pm to 7am with an MIT Student ID
THE TECH PHOTO CONTEST

The Winners

1ST
Nude 1981 Fallon Greindl G $50

2ND
Untitled Calvin Gabriel G $30

3RD
Kathy 1 - March 1981 Bill Hoffman G $20

Thanks to all who entered with special gratitude to all who assisted with the contest. Contestants may pick up their photos in W20-483, or call us at x3-1541 and we'll mail them to you Interdepartmental.
CLASS OF 1981

GOODBYE

REVIEW

PREVIEW

PACKET
RESUME SUMMER

PREVIEW

PREVIEW

THE SUMMER CONTACT

R/O 1981

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Top athletes awarded today

By Eric R. Fleming

Senior Bob Clarke heads a list of MIT student-athletes slated to receive recognition this week in the Special Events Center. Clarke led the men’s basketball team to a 12-11 record and finished straight above-.500 for the year, and was one of the top players on the lacrosse team that finished straight above-.500 in the spring at 7-6. Clarke leaves MIT with a total of 968 points and 745 rebounds during his four-year stay. The Heimlich maneuver native is this year’s recipient of the O’Toole Award, given to the senior who is selected Athlete-of-the-Year.

Another lacrosse player, Paul Adam Sapirstein, will receive the Cochran Award for the senior who has demonstrated outstanding qualities of leadership and inspiration. Sapirstein is one of the nation’s top players with impressive statistics such as his 71.3 save percentage. Despite playing with a broken knee, Sapirstein averaged 19.3 saves a game, including a season-high of 33 in a 15-1 loss to WPI.

Baker, EPS, and chemistry teams are 1981 MIT Softball champions

**Baker**

The Brazilians 6-0

The PBRs (Baker) 4-2

The Brazilians 6-0

**Baker, EPS, and Chemistry**

Number Six 2-4

NM 2-4

Random 6-0

**Baker Division 1**

Fency Valkania 6-0

Softmouths 2-4

St. Louis 1-5

**Division 2**

Beast from the East 6-0

Desmond House 2-4

Kappa Chi 2-4

Club Latino 2-4

**Chemistry**

Six 6-7

BLeague Division 3

Division 6

**Division 7**

Aleh B

Dynamics

Toaster Ovens

BLeague Division 6

Delta

Korans B

Phi Psi

Chemises E

Corner 3

**Chemistry**

Alpha Deeps

Wallowby (EC)

Vertical Smiles II (Sr. House)

Number Six

EMB

Rita and the Freightmen

Bunton 5

Smiles I (Sr.)

Track — Coach Gordon Kel’s first squad box done it again. Saturday, the mighty Engineers (44-1 in meet competition this spring) won the New England Division III outdoor championships held at Bowdoin. Coupled with the indoor title won at Bates in March, MIT rounds out the fall season for both indoor and outdoor in New England Division III in this season. As with all Tech teams, track won over the competition with a total team effort that earned them the title.

Paul Neve 83, concluding an awesome career, won the 800 and 1500 meters to lead MIT’s 55.99 wire-to-wire win, a meet record. Dave Kolda 83 won the hammer with a toss of 123.9 feet, and the Masters 5k 83 won the long jump (28-09) and took third in the high jump. Beth Driscoll 84 finished in the runner-up position in the 10000 meter race. Tech won with 75 points, with Fitchburg State and Westfield State that year’s defending champions tied for second, at 64 points each. The 1980-81 year has been MIT’s finest in history, and credit must go to the coaches, Kel’s and Cliff West, and, of course, the athletes who have made MIT one of the best in New England. With minimal losses due to graduation and a talented crop of freshmen returning for next year, it is a great time for the Engineers to be at or near the top in 1981-82.

**Season summaries**

Baseball — Doubleheader split with Farnsworth -- Tech nine at 5-12 for spring. Strong pitching turned in by Swezey George Neil and Carl Norwitzewski.

Baker — 10-6 for spring 91. Led by Alfas Ramos 91 who will be in XXVII, Div. III tourney Mar 18

Lacrosse — Straight winning season at 7-6. John “Leggs” Lippman ’82 won goals in lead Tech. Adam Sapirstein concludes career as a top goalie (pick)

Softball — Late-season surge leaves squad at 7-8 for year

Tough 18-17 loss to Endicott at home Thursday followed by 20-5 moment win at Nichols. Fresh Liz Anderson splashes for MIT in center. Group is a young one, with one experience’s can’t help the men. Men’s Tennis — 6-7 record in Coach Ed. Crockers 25th year.

Fencing — 10-1 top top, and a talented crop of freshmen returning for next year, it is a great time for the Engineers to be at or near the top in 1981-82.

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Other Award winners include:

Baker Man of the Year: Ken Shull (wrestling), Bob Schoenelein (swimming). Straight "TW"; Oscar Estell, Geoff Fingerson, Nancy Robinson (Fencing), Neil Emerson (Golf), Sandy Young (Women’s Cross Country), John Jeffrey, Bob Schoenelein (Swimming), Paul Neve (Track). Martin Sorrin, Richard Bono, Mark Miller, John Williams, Blaschovitch, H. Thomas Sharp, Edward Sedman, and Spencer L. Webb (all Pistol)

**Top athletes awarded today**

By Eric R. Fleming

**Baker, EPS, and Chemistry**

Six 6-7

BLeague Division 3

Division 6

**Division 7**

Aleh B

Dynamics

Toaster Ovens

BLeague Division 6

Delta

Korans B

Phi Psi

Chemises E

Corner 3

**Chemistry**

Alpha Deeps

Wallowby (EC)

Vertical Smiles II (Sr. House)

Number Six

EMB

Rita and the Freightmen

Bunton 5

Smiles I (Sr.)