Curiosity, Controversy Swirl in Activist Couple's Mideast Account

By PHIL ERNST

Last Wednesday, students and faculty packed into Baxter Auditorium to hear Jewish-American Adam Shapiro’s and Palestinian-American Hawwada Arraf’s eye-witness accounts of “occupied Palestine” through the lens of their firsthand testimony of Palestinian life in the West Bank and Gaza Strip.

Although the duo impressed upon the audience the Palestinian minority’s struggle since Israel’s inception, they focused most acutely on the current “intifada” that has claimed countless lives on both sides of the embittered Israeli-Palestinian conflict.

Hawwada Arraf opened the forum by speaking about her love and devotion for the Palestinian people. She argued that the “Israeli occupation of the Palestinian territories” has greatly oppressed her people and that the Israeli army committed angorious civil rights violations, which, she said, the international community has largely ignored. Arraf pointed to Palestinian land “confiscated by the Israeli government.” Palestinian homes demolished by Israeli bulldozers and her view of Israel’s instituted checkpoints as a deliberate insult to Palestinian society.

She also spoke about a wall that Israel was building around the West Bank in order to separate the Jewish and Palestinian populations. Lashing out at Israel’s claim justification of national defense, she called the wall an “apartheid wall” and said that it had sown new seeds of hate in an already virulent conflict.

Furthermore, she maintained that because “Palestinian lives are worthless to the Israeli government,” the Israeli army had found no qualms about imposing curfews on Palestinians living in the West Bank, which had confined Palestinians to their homes for days at a time.

Arraf also solicited the audience to join her organization, the International Solidarity Movement, in campaign for the Palestinian cause. She maintained that it was the re-

Continued on Page 3, Column 1

BIOLOGY PROF. EARNS NOTED PLANCK AWARD

BORKMAN AMONG 12 WINNERS

Recognized for Work On Immune System’s Molecular Mechanics

By ROBERT LI

Pamela Bjorkman, biology professor and current executive officer for biology, won the Max Planck Research Award last month for her work on the molecular mechanisms of the human immune system.

She was one of 12 scientists worldwide to receive the award. Given out by the Max Planck Society annually since 1990, the Max Planck Research Award for International Cooperation is sponsored by the German Ministry for Education and Research and the Alexander von Humboldt Foundation.

Winners of the award are chosen for their “exceptional and internationally recognized achievements” in one of six categories: life sciences and medicine; chemistry; physics and astronomy; geosciences; mathematics and computer science.

The event began with a stunning collection of songs performed by the Caltech Chamber Singers. Afterward, the audience was walked through the Pledge of Allegiance by the Israeli government.

The mayor proceeded to outline the Pasadena’s plan to arrange housing for its homeless. The event was well attended; almost all of the seats in Dabney Lounge were filled.

Bogaard Plots Parking, Subway in Ramo Speech

By ADAM SEARS

Last Thursday evening in Ramo Auditorium, Pasadena mayor Bill Bogaard delivered his annual “State of the City” address. Apparently, Pasadena isn’t quite where it was last year.

The mayor cited population growth, public works projects and auspicious budgetary plans in his generally optimistic outlook for Pasadena in the backdrop of a heated mayoral election slated for near Caltech, to support local development and encourage tourism.

The completion of the Caltech Broad Center, as well as the Pasadena Bioscience Center, which is supported in part by Cal Poly, Pomona, Cal. State, L.A., Pasadena City College and the city, go a long way toward bolstering the local biotechnology economy. The city hopes to see an influx of personnel from the training programs of PBC, in addition to technological exchange in the private sector through the Broad Center. Mayor Bogaard reiterated plans to renovate the historic City Hall, as well as to increase financing for public parks.

Despite the draw of a minor celebrity, many in the sparsely packed Ramo Auditorium attended for different reasons. “I came for them,” explained Geology Professor

Continued on Page 3, Column 4

L.A. Opera Serenades in Dabney Lounge

By LEA HILDEBRANDT

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Continued on Page 3, Column 4
Caltech Swimming Steams Pool With Slate of Victories

By TAMMY MA

Against Whittman College, Jason Lee ’05 had a strong showing, coming in first in both the 200 Free with a 2:05.89 and the 100 Fly with a 1:01.59. Jim Rebesco, ’04 showed a 22.60 in the 50 Free and a 53.32 in the 100 Free, also placing him first in both events. Logan Linderman ’05 pulled off an exciting and surprise first place win in the 100 Breast with a 1:19.19. The men won, 148 to 62.

On the women’s side, Jacki Wilbur ’04 had a strong showing with a 2:04.67 in the 200 Free — first place — and a 1:05.64 in the 100 Back. Also first, Sally Haas ’03 won the 100 Free with a 59.11. Natalie Krul ’06 has proven to be a very versatile swimmer, placing first in all three of her events: the 50 Free, with a 27.23; the 100 Fly, with a 1:09.29; and the 200 Free with a 2:05.47. The women won, 138 to 96.

Commented co-captain Rachel Thessin ’03, “We’ve had two strong years of freshmen so now there are a lot of good freshmen and sophomore swimmers. We’ve always had the same number of fast swimmers, but we have the depth to back them up by filling in the second and third places.”

Add co-captain Wilbur, “Our team has to be one of the most committed out of all the sports. We have more both morning and afternoon practices and at least one meet a week. The season’s not that long but we work really hard during it.”

Despite a loss to Redlands of 62 to 179 for the women and 46 to 159 for the men, the team was hopeful of turning it around for a winning record for the rest of the season. Remaining unfinished is a win against Pomona Pitzer, which got lucky, but we’ll get them at the SCIAC Championships in February.

The team will host another home meet next Wednesday against Pomona Pitzer at 5:00 p.m.

In a meet against Redlands last Saturday, swimmers dive into the pool in the 500 Freestyle, Caltech lost this meet, 62-179 for women and 46-159 for men.

Caltech swimming teams provide entertainment for the crowd during the men’s “State Flow in Heart Development" lecture.

**Altos, Sopranos and “The Barber of Seville”**

By ROBERT TINDOL

In a triumph of bioengineering, an interdisciplinary team of California Institute of Technology researchers has imaged the blood flow inside the heart of a growing embryonic zebrafish. The results demonstrate for the first time that the very action of high-velocity blood flow over cardiac tissue is an important factor in the proper development of the heart—a result that could have profound implications for future surgical techniques and even for genetic engineering.

In last Thursday’s issue of the journal Nature, investigators reported on two interrelated advances in their work on Danio rerio, an animal belonging to only two inches in length as an adult but a model of choice for research in genetic and developmental biology. First, the team was able to get very high-resolution motion video, through the use of confocal microscopy, of the tiny beating hearts that are less than the diameter of a human hair. Second, by surgically blocking the flow of blood through the hearts, the researchers were able to demonstrate that a reduction in “shear stress,” or the friction imposed by a flowing fluid on adjacent cells, would cause the growing heart to develop abnormally.

The result is especially important, says co-lead author Jay Hove, because it shows that more detailed studies of the effect of shear force might be exploited in the treatment of human heart disease.

Because diseases such as congestive heart failure are known to cause the heart to enlarge due to constricted blood flow, a better understanding of the precise mechanisms of the blood flow could perhaps lead to advanced treatments to counteract the enlargement.

Also, Hove says, a better understanding of genetic factors involving blood flow in the heart—a future goal of the team’s research—could eventually be exploited in the diagnosis of prenatal heart disease for early surgical correction, or even genetic intervention.

The team of bioengineers, led by Liepmann Reinhardt Koster, is a postdoctoral scholar in Professor of Aeronautics and Bioengineering John Gresham, and teamed with Scott Fraser, who is a Rosen biology professor, and Renhardt Koster, a postdoctoral scholar in Fraser’s lab, to study the heart development of zebrafish.

**Study Describes Role of Blood Flow in Heart Development**

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The Caltech Chamber Singers provide entertainment for the crowd during the men’s “State Flow in Heart Development" lecture.

**FINANCES, FUTURE UNDERLINE STATE OF CITY’ ADDRESS**

EMPHASIZES CITY GROWTH, PUBLIC WORKS

City Councilmen, Officials On Parade at Ramo Auditorium

Continued from Page 1, Column 2

George Rossman ’71, as he pointed to the Caltech Chamber Singers. Other public officials, school superintendents and city councilmen showed up to support the mayor and answer relevant questions.

Still more came to advance their own personal projects. Mayoral Candidate Philip Koebel arrived, loaded with business cards to distribute and ready to talk. Other representatives, from an initiative called the City of Learning were not only willing to talk but also gave out stickers and spoke after the main ceremony. The City of Learning’s goal is to encourage an environment of learning for all ages, based on local resources and where citizens are encouraged to take note of educational needs.

Many in the crowd, like Dr. Rossman, were disappointed at the lack of emphasis on crucial issues surrounding the Pasadena community. Bing Hoo ’06 couldn’t make it to the meeting, but was glad that the mayor had remained on several important upcoming projects. “I saw the Gold Line construction during Pajaro Weekend last year. It’s pretty exciting,” he said. Though not as interested in the City Hall renovation, Hoo thought the Gold Line would be worth its wait.

DahnRay Lounge, known for its acoustics, resonates with the sound of a male L.A. Opera singer performing “The Barber of Seville.”

The Caltech Chamber Singers, known for their acoustics, resonates with the sound of a male L.A. Opera singer performing “The Barber of Seville.”
Shapiro, Arraf Press for Palestinian Peace Before Mixed Caltech Crowd

Continued from Page 1, Column 3

His interest in the conflict, said Shapiro, is rooted in his work with “Seeds of Peace,” a conflict resolution organization between Palestinians and Israelis. He has engaged intensely in dialogue with representatives from both sides of the conflict over the past two years. Extrapolating on his life’s work on the Israeli-Palestinian conflict, he recounted his experience of “enjoying twelve straight days of curfew” with his Palestinian friends. People were afraid to open their doors, he said, because they feared being shot by Israeli snipers. Along these lines, he also told a story about a Palestinian woman who was killed for doing hanging her laundry on her balcony past curfew. Calling the occupation “the worst form of oppression imaginable,” he called for involvement from the international community.

“Either we stand for occupation or we stand for freedom for everybody,” he maintained.

After Shapiro finished, moderator Galen Loram ‘05 opened the floor to questions. Most questioners seemed to aim their queries at extreme controversy, often evoking hisoud, outbursts of praise or both from the audience.

Many questions posed by supporters of Israel pertained to the issue of how the Israeli army could realistically make peace with a people who carried out suicide bombings and in, the questioners’ words, taught their Palestinian children to hate Israeli citizens. Arraf and Shapiro firmly rejected claims such as these, arguing that it is the Israelis who were the “real terrorists” and that it was because of the occupation that some Palestinians carried out such bombings.

Asked about the attacks, Arraf maintained that he was against all forms of violence and that she “does not hate Jews and only wants Israel to treat her people as equals.”

Following the audience’s questions, the discussion was opened to questions from the internationals who had come to the territories and their experiences with the Palestinian situation.

Continued from Page 1, Column 3

Autoimmune Disease Meets Match in Prof. Bjorkman

Continued from Page 1, Column 3

His work has led to a detailed understanding of the atomic level, of how our immune systems recognize foreign proteins that are made by disease-causing organisms.

computer sciences; humanities; or engineering. The prize comes with a cash award of 125,000 euros—approximately $132,000—to each award recipient with the goal of promoting greater cooperation between German and non-German scientists.

In giving the Life Sciences and Medicine Award to Dr. Bjorkman, the selection committee cited her contributions to the field of molecular immunology and specifically her work on major histocompatibility complex (MHC) molecules and on how their structure relates to function.

MHC molecules are proteins found on the outside of all human cells whose purpose is to allow the body’s T-cells to distinguish between normal host cells and foreign cells such as those which are cancerous or have been infected by viruses.

Dr. Bjorkman has identified the sequence-specific uniqueness of these MHC molecules and the body’s perception of non-host MHC molecules as alien, among other problems, as two of the leading causes of organ rejection in medical patients.

MHC molecules function by taking short peptides from digested proteins within the cell and presenting them on the surface so that receptors on the T-cell then bind and determine if the cell is host or non-host.

In the late 80’s, Dr. Bjorkman was the first to determine the crystal structure of the MHC protein. Her later work showed that MHC molecules presented not only alien peptides but endogenous peptides as well. Since endogenous peptides can sometimes be mistakenly identified as alien—and, as a consequence, targeted by the immune system—her research, according to Dr. Bjorkman, provides a “molecular explanation for the origins of autoimmune disease.”

Commenting on her award, Dr. Bjorkman cited the high level of the support she received at Caltech as well as the many opportunities for cooperation among people of different disciplines.

She plans to use the 125,000 euros of prize money to research the structure of viral proteins that mimic human proteins.

Dr. Bjorkman came to Caltech in 1989 after earning her Ph.D. in biochemistry from Harvard and doing her postdoctoral work at Stanford.

“Pamela has long been a leader among the world’s structural biologists and this prestigious award from Germany’s Max Planck Institute shows that she is internationally recognized as such,” said Elliot Meyerowitz, biology professor and department chair. “Her work has led to a detailed understanding of the atomic level, of how our immune systems recognize foreign proteins that are made by disease-causing organisms.”

"I needed money and got it!" Need Food Money?

Contact Elin XBE25 — SPP@bcaltech

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"I needed money and got it!" Need Food Money?
Revel: One, Two, Three... Go! Dean's Crystal Ball Points to Fast, Furious 21st Century

BY JEAN-PAUL REVEL

One, two, three... go! The new century is launched, how well remains to be seen. But then it would have been hard at the beginning of 1900 to foresee what did transpire during the 20th century. Should one take as anomen that so early in the year we already have a 200-meter asteroid making a close approach to earth? We owe it to ourselves and those who’ll live on after us.

We owe it to our predecessors, the newest and oldest representatives of our species, Homo sapiens, as represented by Touma, appropriately meaning “hope for life” in the vernacular.

“Is an omen that we already have a 200-meter asteroid making a close approach to earth?”

With the saying, “there is no new thing under the sun” in mind, I will venture a few comments on what may be the most significant upheaval of the last century, the discovery of the world of the cell, and tissue transplantation, the tissue in the Senior Director of AmCytne, Inc., a leader in cell and tissue transplantation, is said to have all the attributes of a “breakthrough” and will likely be the basis for “breakthroughs” in understanding, if not listing in magazines, in the future.

Breakthrough number two is the discovery of the word “cell,” particularly neutrons change as they travel and arrive on earth as a mix of electron, neutrons, and muon neutrinos. But the number-one breakthrough was not surprising to me, not because it does not control what genes are expressed, but because, in my mystic view, it can be said to not as directly produced as fundamentally important as a gene in a cell’s environment. Number one, according to Science, is the discovery of new rules for RNA. Up to now RNA has been seen as the molecule that directs the expression of proteins, Messenger RNA is copied from DNA and then modified to represent only the coding sequence of the DNA. This message then directs the assembly of the polypeptide chain by controlling the addition of amino acids, as a result of protein synthesis, the transfer RNA, which is coding on RNA “machines” — ribosomes.

In the new RNA, it is clear that RNAs are involved in many other aspects of cellular activities. RNA can now be said to be a new way of making protein with the RNA sequence can dramatically inhibit the genes that helped generate the initial RNA. Consequently, RNA is both a versatile tool for inserting RNA into individual genes, in a manner much simpler than the lengthy and complex procedures used at present. In addition other small RNA molecules are involved in the regulation of the genes and the expression of RNA — and thereby control what genes are active and less well-documented and that they may control the expression of genes that have been silenced on RNA “machines” — ribosomes.

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Mr. Denning's experience is necessary. Everyone is welcome to attend each and every quarter, and includes a jazz/folk chord system. Classes are free to Caltech students. and part-time during the school year under the Caltech Work-Study Opportunity! Wanted: undergraduate work study students to participate in gamma-ray observations of the Gamma-Ray Observatory between 1991 and 2000. Employment would be full time (40 hours/week) during the summer and part-time during the school year under the Caltech Work-Study program. Salary will be between $14 and $20/hour depending on the experience of the student. If you are interested in applying for the position, please call Dr. James Ling at (818) 354-2819.

The Y, located on the first floor of the Holllinson parking structure. If you are interested in a Y activity or have questions about the Y, please stop by, or send an e-mail to the Vice President (y-veep@ugcs.caltech.edu).

The Y (x6163) is located on the first floor of the Services Building. All meetings are open to students, staff and faculty - every Monday at noon in the Caltech Y. The Y is headed by the President and the responsibilities of the job center around that role. The Board of Control also oversees the Board of Directors and the President, and the job relies heavily on personal initiative. The time commitment can be heavy and there is very little fame or glory associated with being President, but the opportunities for a student to make a difference any greater in that position than perhaps any other.

The Y has several mailing lists through which the Y announces activities and projects. If you'd like to come, please send an e-mail to y-outdoors: hikes, camping trips, kayaking; y-interest: any general Y events (e.g., social events, concerts); y-sports: athletic events (e.g., soccer, volleyball, basketball); y-nights: special events (e.g., movies, concerts, lectures) if you'd like to join the tutor pool list.

**Upcoming Events:**
- **ON-CAMPUS TUTORING** (1/14, 1/16, Winnett 4-6 p.m.). Stop by Winnett and tutor a local middle or high school student. No experience is necessary. Everyone is welcome to come as their schedule allows. (Contact y-tutors@ugcs/caltech.edu if you'd like to join the tutor mailing list.)
- **UNION STATION (1/18, Caltech Y, 6-9 p.m.).** Cook and serve dinner to 40-50 residents at a homeless shelter in Pasadena. Please e-mail y-volunteers@ugcs.caltech.edu if you'd like to come. Contact Greg (greg@ugcs.caltech.edu) for additional information about any event.

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**CTT Guitar Classes**

**Winter Quarter:**

- **Beginner Guitar Class** 4:30 p.m. - 5:30 p.m.
- **Intermediate Guitar Class** 3:00 p.m. - 4:00 p.m.
- **Advanced Guitar Class** 5:30 p.m. - 6:30 p.m.

These advantages are just part of the many benefits of CFCU's Free Checking (free checking + 

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Class: Costs, Benefits

By JIALAN WANG

Why should we go to Caltech? It is a common sight at Caltech that at any given non-mandatory class lecture, only about half of the class shows up and among those who do, several are un- or semi-conscious. Some students choose which classes to skip and some skip classes across the board, but in whatever form, class absenteeism is accepted as a norm of Caltech life by students and professors alike. But since the mission of Caltech with regard to its undergraduate students is to educate and the only direct method of educating students is through weekly lectures, this large-scale absenteeism is a clear signal that Caltech is not accomplishing its mission as well as it should.

Why do students skip class in the first place? Boiling this question down to its essentials, it’s simply a case of cost-benefit analysis. As Mark Bilinski ‘03 puts it, “the benefits of going are less than the costs.”

So what are the costs and benefits? The most obvious and most important cost is time. At Caltech, time is our scarcest and most valuable asset and the key to success here is time management. When problems sets themselves and related studying take at least nine hours per week, that leaves little time for attending lectures.

Since homework and sleep exert the most pressure on our time, time spent in class comes from the same time everyday. Therefore, skipping class takes away from either sleep time or homework time. Forgoing test for class is obviously counterproductive, for sleepy students would most likely not get much out of class anyway and the additional sleep deprivation not only lowers mental ability but also harms overall health. Forgoing homework for lectures means the cost of a lowered homework grade; or, in the least, a lesser understanding of the homework. Thus, the inter-leaf of sleep and homework, completion effectively compete with lectures for students’ time.

Another cost of attending lectures is boredom. Let’s face it, even families are pared to struggling over problem sets, lectures are not very exciting. With the exceptions of humanities classes and a few other classes, lectures consist of a professor simply copying the prepared notes on the board and reciting them aloud in a monotonous way. Moreover, professors often will try to go over every detail of their class material in their preared notes.

Continued on Page 7, Column 4

A Change to Keep: Rose Parade

By TED JOU

A little over a week ago, approximately one million people came to Pasadena for the Tournament of Roses Parade while tens of millions watched in their living rooms. However, while the nation learned about high school marching bands, city parades and a lot about roses, there was no mention that Pasadena happens to be home of the one of the top research and educational institutions in the world. Many a Caltech student has wondered why people haven’t heard of their school and why when strangers hear “Caltech” they say, “you mean Cal. Poly.”

The answers may have been in the parade on New Year’s Day. The students of Cal. Poly. have built a float every year since 1949, while Caltech students have built a float only twice during that period. The Caltech community seems largely ignorant of the Tournament of Roses. I bet you didn’t know that three Caltech girls reached the quar­terfinals for Rose Queen this year. Maybe we could focus our efforts in that direction, but I think engineers and students will come to realize the value of building a float.

Another major aspect will rely on time management. When make sequels if they were concerned with their originality. Like any other industry, it is primarily concerned with its finances. Movie studios favor sequels because they are better investments. Sequels sell tickets based on the reputation of successful original films, making them lower risk in­vestments. Why invest millions in a new concept that might confuse viewers who don’t already know X? guaran­teed an audience? The lure of certain success is so attractive.

Continued on Page 7, Column 1

Stuck in Past, 2002 Flicks More of Same

By JOE ESCALADA

Hollywood distributed endless reels of bad film in 2002, as it has with relative anonymity by 2003. By Joe Liaushi, asserts at Los Angeles Marriott Downtown in front of 400, that for Caltech would be ex­tremely valuable. The lure of certain success is so attractive.

Continued on Page 7, Column 1

EDWARD TUFTE

One-day Course in Los Angeles Edward Tufte will offer his one-day course on information design three times this January.

Tuesday, January 14
Wednesday, January 15
Thursday, January 16
All at Los Angeles Marriott Downtown

The course runs from 10 to 4:30
Special rates for full-time students

Call 800 822-2454 or 203 250-7007
Or see www.edwardtufte.com

BOD CONSIDERED

BY JOSPEH JEWELL

President Ted Jou ’03, Vice Pres­i­dent Vikram Mittal ‘03, Secretary Joe Jewell ’04, Kimberly Hiscos ’06, Interhouse Committee Chair­man Marcus Williams ’03, Aca­demics and Research Committee Chairman Basit Khan ’03, Social Director Jalil Wang ’04 and Fresh­men Director-at-Large Andrea Vasconcellos ’05. It was two years ago that Caltech Work-Study program. Salary will be between $14 and $20/hour depending on the experience of the student. If you are interested in applying for the position, please call Dr. James Ling at (818) 354-2819.

ASCIT President Ted Jou ’03 stands in front of the float designed and built by students at Cal Poly, San Luis Obispo and Pomona for the 2003 parade. Jou attributes Caltech’s relative anonymity with the fact that students don’t participate in the annual parade that runs through our backyard.

If there is an undergradu­ate student body and faculty are not being considered, but there are more grad students now than ever before and the postdoctoral candi­date population has exploded to one million people came to Pasadena for the Tournament of Roses Parade while tens of millions watched in their living rooms. However, while the nation learned about high school marching bands, city parades and a lot about roses, there was no mention that Pasadena happens to be home of the one of the top research and educational institutions in the world. Many a Caltech student has wondered why people haven’t heard of their school and why when strangers hear “Caltech” they say, “you mean Cal. Poly.”

The answers may have been in the parade on New Year’s Day. The students of Cal. Poly. have built a float every year since 1949, while Caltech students have built a float only twice during that period. The Caltech community seems largely ignorant of the Tournament of Roses. I bet you didn’t know that three Caltech girls reached the quar­terfinals for Rose Queen this year.

Another major aspect will rely on time management. When make sequels if they were concerned with their originality. Like any other industry, it is primarily concerned with its finances. Movie studios favor sequels because they are better investments. Sequels sell tickets based on the reputation of successful original films, making them lower risk in­vestments. Why invest millions in a new concept that might confuse viewers who don’t already know X? guaran­teed an audience? The lure of certain success is so attractive.

Continued on Page 7, Column 1

Stuck in Past, 2002 Flicks More of Same

By JOE ESCALADA

Hollywood distributed endless reels of bad film in 2002, as it has with relative anonymity by 2003. By Joe Liaushi, asserts at Los Angeles Marriott Downtown in front of 400, that for Caltech would be ex­tremely valuable. The lure of certain success is so attractive.

Continued on Page 7, Column 1

EDWARD TUFTE

One-day Course in Los Angeles Edward Tufte will offer his one-day course on information design three times this January.

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President Ted Jou ’03, Vice Pres­i­dent Vikram Mittal ‘03, Secretary Joe Jewell ’04, Kimberly Hiscos ’06, Interhouse Committee Chair­man Marcus Williams ’03, Aca­demics and Research Committee Chairman Basit Khan ’03, Social Director Jalil Wang ’04 and Fresh­men Director-at-Large Andrea Vasconcellos ’05. It was two years ago that Caltech Work-Study program. Salary will be between $14 and $20/hour depending on the experience of the student. If you are interested in applying for the position, please call Dr. James Ling at (818) 354-2819.
By LIBIN ZHANG

Being a longtime user of Microsoft products, it was with apprehension and skepticism that I approached the Macs at the Apple Store. Their "fruity" colors and devarious designs winked at classical homeophobe in me and I was greatly concerned that no matter how confusingly confused. After using a Mac for a while, I must say, that as some former Mac users stated so eloquently, "Mac suck." Over 95% of the computing world uses Microsoft Windows. Popularity is obviously a sign of superior merit and claims of illegal Microsoft monopoly are shamelessly moral and kewpie-doll disguise myself-regulation. If the government had interfered in the accounting industry's self-regulation, my stock portfolio would be worth so much more money today. I am also an America On-Line user, but I am not the service is the most popular that is the most convincing. Likewise, the accesses follows the billboard charts, ranging from Britney Spears and Backstreet Boys, to Hanson and N'Sync. Mercedes and BMW have small market shares, so their cars must be crappy. I'll race my souped-up Honda Civic—with an uber-special "Powered by Rice" sticker—any day.

Cinema Year 2002 In Recap: More Sequels

movie's leading actor can't always consider the movie's leading actor of 2002. Libin Zhang '05 stakes his claim at Apple's "Just For Kids" Web site at the new Apple Store in Pasadena. His verdict? He just can't wait for Microsoft and two-button mice to take over the world.

By LIBIN ZHANG

Consider the Nightfire. The new Bond movies rely too much on special effects and gadgets. For example, did the villain really need that ridiculous electronic battle suit? Sadly, personality was the price of this ridiculous, flashy technology. Pierce Brosnan isn't as compelling as the womanizing alcoholic that Sean Connery was in Goldfinger. Sean Connery saved the world with only his rugged good looks and a hangover. Brosnan isn't that much of a man and so he needs super technology like invisible cars and Vagans. I think that pretty boy might be a double agent.

Other sequels of 2002 follow suit. Star Trek: Nemesis is a bland rehash of Star Trek: The Wrath of Kahn with better special effects. I guess it's plagiarism if you own the rights to the original. Trekkies weren't the only geeks wronged by Hollywood. Sterile romance and kindergarten dialogue make Episode II a visually stunning outrage to the original Star Wars Trilogy. We've just endured a steaming crapfest of horrible original movies and sequels. If you decided against The Swoosi Gits Gigs Gutsy Patients and the Chamber of Secrets on the basis of heterosexuality, your manner of judgement was shortsighted. More Sequels

Ec 11b: The Economic Tradeoffs of Lecture

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New Tax Year for ASCIT BOD?

Continued from Page 6, Column 5

around 700. $500 is approved by a five-zero (50) 10-k tax form. It was late but high-quality. The R0c heard 4 cases last term. It takes a unique wait in bookstores, with one conviction, upheld. We consider the moving fiscal year for tax-filing purposes. In the last two years, with alumni Sean McHugh '92 and Leland '82 joining the ranks of resea- cher. IRS penalties could be reduced by due to mitigating circum- stances. John is the one person I know and Joe will contact our account- ing department to inform us of the "world's most-lonely-ran corpora- tion." The Food Committee will be ex- amining veggie and vegetarian snacks.

Khan reports SFC committees are meeting and the conference has been switched to April 9.

Continued from Page 6, Column 3

BOD~
of the Blue Shield leave. who mark ava~lable More Sequels

Lilin Zhang '05 stakes his claim at Apple's "Just For Kids" Web site at the new Apple Store in Pasadena. His verdict? He just can't wait for Microsoft and two-button mice to take over the world.
**Embryonic ‘Beads’ May Affect Valve Formation**

Continued from Page 2, Column 3

"Our research shows that the shape of the heart can be changed during the embryonic stage," says Howe. "The results invite us to consider whether this can be related to the roots of heart failure and heart disease."

The researchers keyed their efforts on the zebrafish because the one-millimeter eggs and the one-millimeter embryos inside them are nearly transparent, which allows the addition of a perturbation to the embryo that can be seen. The team created a "live" imaging of a layer of tissue. The researchers say the effect should also hold true for human embryos.

The next step for the researchers is to attempt to regulate the restriction of shear force through new techniques to see how slight variations affect structural development and to look at how gene expression is involved in embryonic heart development.

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**Apple Computers Vice President of Retail Ron Johnson demonstrates one of the company’s notebook computers at last Tuesday’s store opening in Pasadena. The Apple Store plans to host “School Night at the Apple Store” and provide student discounts to participants.**

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**$1.4 Billion to Raise, New VP Dicovitsky Aims to Sell “Unique Product in Caltech”**

BY JON FOSTER

Though perhaps not as much of a student household name as that of Caltech’s other new vice president, Margi Marshak of Student Affairs, new Vice President of Development and Alumni Relations Gary Dicovitsky will perhaps have just as sweeping an impact on student lives.

Over the next five years, Caltech hopes to raise $1.4 billion for a broad array of projects and Mrs. Dicovitsky is one of the leaders of this effort. With previous major fund-raising experience at Princeton and Pomona, Dicovitsky is working hard to settle into his new position.

He denies having any unique approach towards raising money, but notes that "we have a unique product in Caltech, so perhaps it’s a differentiation that you might not see elsewhere." When it comes to raising considerable dollars for worthy projects the fundamentals are pretty standard, he says. You have to be out there—you have to first of all understand the culture of Caltech—why the projects that have been identified are priorities for the campus and why there’s an immediacy for those projects.

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**Mac Garb, Student-packed Lines Spotlight Apple Store Opening**

"School Night at the Apple Store." Each week, the Apple Store hosts a school to display the students’ work of students done on a Mac. Participating students then get an additional discount on any Mac they buy if they use it. Apple also donates some money to their school.

"We’ve done a lot of work to showcase... achievements on a Mac," said Senior Vice President of Retail Ron Johnson.

This very people-centric view, I believes is echoed throughout the store, which is designed with the home in mind. Stools are set up to blast your music at a moment’s notice, each computer is set up with an unrestricted internet connection and there is a pleasant ambiance with music and people chatting.

"The store is really fun for people because they can try [everything] out." Mr. Johnson explained. "From the digital cameras to the monitors to see if they can use everything as if it were yours."

But besides the environment they create, the stores themselves are works of art. The 52 such stores nationwide are within 15 miles of 85 million people—one third the US population. Not bad for a small chain whose first building went up only 20 months ago.

Anyway, despite being only a "switcher-to-be," I could still appreciate the wonders in innovation that went into the Apple Retail Store. So whether you want to check out their product line, purchase a Mac, or check your e-mail, Apple is a great place to go.