By JON MALMAUD

Space. The final frontier. Actually, deep space will probably be the final frontier. The Spitzer deep-space infrared telescope does, however, paint an intriguing picture of the penultimate frontier. Michael Warner, a project scientist working at the Spitzer Science Center, gave a lecture Wednesday evening on how the heat-seeking telescope is helping astronomers shed some light on cosmic mysteries.

Spitzer is one of four of the former major NASA telescopes scouting the depths of our extraterrestrial domains, the others being Hubble, Chandra, and Compton. Two of those or will soon be no longer operational. When all four were operational, NASA will be able to scan the universe in almost the entire electromagnetic spectrum. The visible wavelengths turn out to be too short to penetrate the gas and dust of cosmic dust.

Infrared is useful for studying stars and other bright objects, as hot objects can be very easily distinguished from dust clouds. To demonstrate, a scientist covered himself in an opaque plastic bag. When he was viewed through an infrared camera, his body was clearly revealed even under the bag as her body radiated waves of heat. She then held a panel of fully transparent glass over her face. This time, she was completely invisible to infrared since glass is insulating.

Observations from Spitzer have already suggested or given additional evidence to various theories regarding galaxy and planet formation. In light of the heat of far-star worlds, it now seems certain that suns form when dust, much of it from asteroid collisions, coalesces into the giant fissures reactors. The true extent of the spiral geometry in the Whirlpool Galaxy is also only seen in infrared.

The posters from the tables were then discussed among the entire audience. The strengths and weaknesses of Avery, including the strengths and weaknesses of Tammy Ma, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience. The strengths and weaknesses of Tammy Ma, including the strengths and weaknesses of Avery, were then discussed among the entire audience.

Continued on Page 7, Column 3
2005 Election Results

Director of Academic Affairs

Clark Guo 4%
Meng-Meng Fu 56%
No 14%
Write-In 2%
James Berglund 24%

IHC Chairman

Melody Grubbs 13%
No 11%
Write-In 1%
Peter Foley 75%

FDAL

Hanwen Yan 13%
No 15%
Write-In 1%
Anton Shuster 27%
Todd Gingrich 30%

Treasurer

No 18%
Write-In 2%
Kelly Lin 59%
Franklin Jiron 21%

Social Director

Rocky Velez 38%
No 8%
Write-In 1%

BoC Secretary

No 24%
Write-In 3%
Jean Sun 73%

Senior Class Co-Presidents, First Round

Stolarski 20%
George and Patel 9%
Leibs and Montague 14%
Davies and Reich 6%

Secretary

Meaghan Pacely 33%
No 11%
Write-In 1%
Parvathy Menon 55%

CRC Co-Chair, First Round

Elizabeth Shay 19%
No 10%
Write-In 1%
Aleks Checkin 19%
Jeremy Leibs 41%

Tech Editors

Walker and Tikoo 42%
No 2%
Write-In 1%
Adam Craig 55%

UDAL

Ryan Farmer 69%
No 29%
Write-In 2%

Stewardship Committee Co-Chair

Phil Welch 33%
No 20%
Write-In 2%
Eddie Truong-Cao 45%
Fencing’s Harvard Qualifies for Nationals, Zortman Breaks Javelin Record, Water Polo Has Tough Losses

By MIKE RUPP
Caltech Baseball: Team Hosts Alumni Game

The Caltech Baseball team hosted its 2005 Alumni Game this past Saturday, with many former Beavers returning to give their best efforts against this year’s team.

After giving up two runs in the first, freshman starter pitcher Shawn Suryk settled down, shutting out the Alumni in his next four innings.

An RBI-triple by senior shortstop Jason Quimby tied the game in the third inning. He was immediately followed by senior baseman Isaac Gremmer, who doubled him in. Caltech would score three runs in the inning.

In the bottom of the eighth, Caltech scored in another five runs, all on a bases loaded two RBI single by junior catcher Tim Boyd.

The alumni had their last chance in the top of the ninth, putting two men on base with two outs. But junior centerfielder Dan Soudek made an incredible catch to end the game. Final score: Caltech 9, Alumni 2.

The team played its next game Friday night, traveling to UC Santa Cruz, and will play their final home game of the season April 2nd at Pasadena High School, a dot-to-dot league game against Dodge-town West. The first game will be at 11:00 AM.

Women’s Basketball: Year in Review

The Caltech Women’s Basketball team impressed by leaps and bounds this past season, boosted by the best recruiting class in the program’s history.

In comparison to last year, team scoring shot up an astronomical 128%, Team shooting rose from 15% to 25%. Team assists more than tripled to 161. Total steals increased 60%. The team’s total blocks shot up from 11 in 2003-2004 to 71. That improvement helped lead to opposite field goal percentages falling from 46% to 41%.

The team set several season records for points scored, most field goals made, most three-pointers made, total rebounds, assists and total blocks.

With a talented core of now-seasoned freshman and more re­
cruits on the way, the future of the Women’s Basketball program at Caltech is extremely promising.

Student-Athlete Spotlight: Women’s Swimming/Water Polo - Shannon Lewis

Shannon Lewis, a Senior from Washington, DC has been a key member of the Women’s Swimming team all four of her years at Caltech. She was selected as co-captain of this season, finally receiving official recognition for her role as team leader and organ­izer.

Senior coach Clinton Dodd says “She is the subject of this week’s Student-Athlete Spotlight.”

Coach Clinton Dodd says “She has always exceeded expectations as our distance specialist.”

Women’s Water Polo Coach Calla Allison agrees and is grateful to have Shannon’s help in building a young program. “A player like Shannon is a joy to any coach. You know that once she commits to something, she will dedicate herself to improving and motivating others.”

(Athletics) forces you to be committed, and to get your work done on time,” says Lewis.

Lewis says it helps her to have the com­
mitment and support of her team mates.

“Athletics is a team sport so working as part of a team is a must,” says Lewis.

The team played its next game Friday night, traveling to UC Santa Cruz, and will play their final home game of the season April 2nd at Pasadena High School, a dot-to-dot league game against Dodge-town West. The first game will be at 11:00 AM.

Women’s Water Polo at CSU East Bay Invitational

The Women’s Water Polo team hosted several meets this past weekend for a match at UC Santa Cruz followed by a four-match tournament at the Caltech Invitational. The team lost to UCSC, 4-11. This was followed by losses to CSU East Bay (1-3), CSU Monterey Bay (2-11), and two losses to Sonoma State (0-9 and 3-11 respectively).

Sophomore Preethi Sinha led the team in scoring in the top with four goals. Senior Beth Dorman and junior Bekah Eason finished with three each. Junior goalkeeper Delia Davies had 26 saves.

The team plays next March 19th-20th at the Claremont Mudd­
Scrap Invitational. Its next home match is the Caltech Invita­
ional, March 22nd at the Caltech Classic, with the team host­ing programs from all around the country.

Men’s Basketball: Year in Review

This year, the Men’s Basketball team observed numerous improvements over the previous season.

Team scoring increased 43%, as junior Jordan Carlson and freshman Bryan Hicks led the team in scoring. Team field goal percentage improved just as dra­matically, from 25% in 2003-2004 to 50% this past season. Team defense improved significantly as well—opponents’ scoring dropped from 55% in 2003-2004 to 46% this past season. Part of the defen­
se improvement was no doubt due to improved defense inside. The team’s shot-blocking more than quadrupled this year, to 2.4 blocks per game.

With a good mix of seasoned veterans and talented newcom­
ers, the future of the program is bright.

Caltech Fencing: Harvard qualifies for Nationals

Senior Kristen Zortman set a new personal record in women’s javelin this past season! After giving up two runs in the top of the ninth, putting two men on base with two outs. But junior centerfielder Dan Soudek made an incredible catch to end the game. Final score: Caltech 9, Alumni 2.

Fencing: Harvard qualifies for National Championships at NCAA Western Regionals

Last weekend’s straight away, 5 o p h o m o r e Senior Kathryn Zortman led Caltech at the NCAA Champi­

The team set several season re­

goals made, total rebounds, total assists

sions, currently

leads the team in RBIs with seven

Senior Isaac Gremmer (P/H) (left) has led Caltech both at the plate and on the mound. Senior Jason Quimby (SS) leads the team in hitting.

The team played its next game Friday night, traveling to UC Santa Cruz, and will play their final home game of the season April 2nd at Pasadena High School, a dot-to-dot league game against Dodge-town West. The first game will be at 11:00 AM.

Women’s Water Polo Coach Calla Allison agrees and is grateful to have Shannon’s help in building a young program. “A player like Shannon is a joy to any coach. You know that once she commits to something, she will dedicate herself to improving and motivating others.”

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mitment and support of her team mates.

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Caltech Marathoners Go Head to Head Against LA's Finest

I’ve now been writing for the Tech for about 14 months, and I regret that my contribution to what has been a fine newspaper is about to come to an end. The incoming editor and I do not share the same opinions about the Tech, so I’ll be resigning as a columnist, at least for the time being. If you’re really desperate for more articles, feel free to e-mail HamiltonFalk@gmail.com. If for some reason I actually get a few e-mails, I might write some articles and send them in to the folks who’ve asked. Or I might not, I’m a lazy person.

I’d like to let everyone know that due to some “constructive criticism” in a poster put up by Adam Craig during his campaign to take over the Tech, I’ll be making some changes to my writing style. If you’d like to read what he wrote about me, I’ve included it below. First of all, I promise that I won’t use any more parenthetical comments and I’ll stop blatantly lying or using footnotes.

Those were the two main problems with my writing personality (I can’t believe it took me so long to realize that my parenthetical comments were breaking up the flow of my words, making my paragraphs awkward) but I think I can also learn from the advice given to others. I think I will avoid qualifiers, which are somewhat useless, because of course things either are or are not whatever adjective I choose to describe them; modifying an adjective is just comically ridiculous. I think I should also make sure that I don’t use anything derived from the term “surprised” without explaining why I found these things surprising (I supposed I’d better just assume anyone who reads my articles are too dumb to figure these things out on their own). I’ll avoid using any sort of technical jargon, especially if I mention research. Instead of typing “laser,” for example, I’ll explain what the acronym means. Large Alien Super Exploding R-zapping thing. I promise that I will no longer use rhetorical questions, since we all know they’re useless anyway, right? If I should decide to ask my readers a question, I will leave some space after it for them to answer, like this. Do you think rhetorical questions contribute to the persuasiveness or eloquence of an editorial?

I’ll also avoid metaphors, since they are like a deadly flower, beautiful to see, but full of bees. I promise not to have “undesirable branches of un-improper prose style.” I also promise to figure out exactly what that means. I will never dare mention the name of another newspaper, not even the New York Times, The Wall Street Journal or even The Toronto Star. Using references like this, as well as the other things I’m correcting, no longer meet with my standards for clarity, conciseness, fluidity or vividness.

Here is the section of Adam Craig’s propaganda referring to me: “In ‘The Art of Becoming A Man [etc.],’ Hamilton Falk makes five parenthetical comments and three comments set apart from the rest of the text as footnotes. If they are relevant enough to appear in the article at all, then they are relevant enough to incorporate into the body of the paragraphs in which they appear. Otherwise, the other [We can assume he meant author here. This editor is editing the Tech now. Oops. I forgot I’m not allowed to write parenthetical comments.] should be exclude them completely. Parenthetical snips and tags break up the flow of the words, making the paragraph sound awkward.”

(1) Unless I feel like it.
(2) Oops, there I go breaking up the flow of my paragraphs again. I promise that in the future I will strive to do better.
(3) Which is not only a newspaper that is not the Tech, but is Canadian as well.

Letter to the Editor: Complaints Over Tech Food an Old Tradition

Dear Editor,

I guess the one constant in student life is complaining about the state of the food service (“When It Comes to Being on Board...,” by Hamilton Falk). If we step back a decade and a half, we can see where things used to be. Otherwise than the ratio (7:1 at the time), food was at the top of the complaint list. Back then there wasn’t a “Caltech Dining Service.” The board contract was in fact by competitive bid, and indeed in some years that bid went to local restaurants.

What did we get? Well, the cost was about the same or more, inflation-adjusted. There was no convenience store, no Broad Cafe, no Avery Cafe, no debit cards, and no ability for students on board to eat at Chandler. The Red Door was pretty much a closet next to the Y that sold coffee. Lunch and dinner were served in your house dining room, during the dining hours only, and if you didn’t like the entree of the evening, you could “dine with the Captain” (Couch Chamber). The only way off campus was to move off-campus (which admittedly there was a lot more of). Back then there was no Old Town (this was a bedroom community and the streets were practically empty at night), and restaurants dining was pretty much limited to the Denny’s mentioned in the article. It wouldn’t surprise me if CDS operates at a loss for years everyone clamored for CFT to please create its own food service like others schools had, and we were told it would never be cost effective. My biggest complaint with Caltech’s food service - why didn’t I have to eat such putrid crap for four years when I was a student?

Jason Surace
Rickets ’92

Caltech Marathoners Go Head Against LA's Finest

The second Caltech Relay Team poses for a picture after their 2:01:20 finish. Each member of the 17 person team ran seven legs of 400 m each.
Emerging Artist Ben-Ari Uses Violin to Shake Up Hip-Hop

BY THOMAS TSAI

For music usually heard in chandelier-strung concert halls featuring versions of Joshua Bell and Itzhak Perlman, the melodious sounds of violin usually do not come to mind when it comes to the head-thudding, bass-thumping sounds of hip-hop. However, Miri Ben-Ari is attempting to change it all. Armed with a bow and a violin, Ben-Ari is primed to make her mark in the musical world.

At first glance, it is hardly believable that the small, Israeli-born 26-year-old tears it up with the likes of heavy hitters like Alicia Keys, Twista, and Kanye West, but Miri has got the flow and the soul, especially when it comes to music. Like the rappers that she works with, Miri spits out her verses, except with the violin. Most recently, she was credited with a Grammy for her contributions in Kanye’s mega-hit single “Jesus Walks” and will be rolling out with a new album, The Hip Hop Violinist, later this year under the Universal record label.

Originally a classical violinist with aspirations of composing music, Jazz Miri Ben-Ari immigrated to the United States at the age of 16 to enroll in the Mannes School of Music in New York City. In America, however, she was quickly drawn to the hypnagogic sounds of violin usually do not come to mind when it comes to the head-thudding, bass-thumping sounds of hip-hop. However, Miri Ben-Ari is attempting to change it all. Armed with a bow and a violin, Ben-Ari is primed to make her mark in the musical world.

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Ben-Ari’s rising success has been largely influenced by hip-hop’s integration into the mainstream. With hip-hop and R&B dominating seven of 10 songs currently in the Billboard Top 10, record producers have continually looked to incorporate new, more worldly, elements into hip-hop in order to draw a larger listener base. For that, Miri’s sound is sure to become a mainstay. Her upcoming album’s first single “Sunshine to the Rain,” features R&B crooner Anthony Hamilton and rapper Scarface in an smooth, catchy beat, contrasting an industry dominated by the hard, gangsta style of 50 Cent and company. Even the music videos eschew hip-hop in different light, depicting it as a unifying force. Miri stands out on a street corner, performing with her beloved instrument, and gravitational on a project that helps so many veterans... All it really takes is for someone to help them along and tell them they can do it.” Ex-Navy graduate student Patricia Neil, who led a trip to the Vet’s Garden to work on a micro-garden project says it was “fun to make an impact on a project that helps so many veterans.”

Check out the Caltech Y website at http://caltech.yu for more details or sign up now! If you have any questions, contact Greg Fletcher, greg@caltech.yu, or Esther Lee, esther@caltech.yu, (student ExComm President, Caltech Y). The event is co-sponsored by the Tournament of Roses Foundation, GSC, Student Affairs and the Crawford Fund.

Enroll now and get $100 back!

GRE GMAT LSAT MCAT DAT OAT PCAT TOEFL

Receive a $100 rebate when you enroll in a Kaplan course between March 1st - March 31st.

Limited time offer!
Call or visit us online for more information or to enroll.
The Beckman Political Internship will be available again this summer. The internship, supported by friends of Arnold O. Beckman, will pay a stipend of $5,000. It allows a selected intern to spend the summer working in the office of a politician or a government agency and to see from the inside the process of government. The applicant is expected to take an internship with the appropriate political persons or organizations. The internship is open to any Caltech undergraduate who intends to be a student next year.

If interested, submit a proposal describing where and how you would like to do an internship along with one faculty recommendation, to the Office of Student Services, 110-87, or macbang@caltech.edu, by MONDAY, MARCH 28, 2005.

Please join FICCT in an Evening Examining Twenty-first Century, Nonfer (Iranian New Year) Education and Celebration Date: Sun. March 27, 2005
Time: 6pm-midnight
Location: Dabney Hall on Caltech Campus

The celebration will include: traditional Persian dances, a traditional dinner, traditional Persian music and informational posters describing different regions of Iran, and a late-night DJ for dancing.

In the minds of Iranians, the word Nowruz invokes colorful images which are sumptuous, elegant, and opulent as well as delightfully simple, refreshing, and cordial. Please join us in celebrating the new year and the beginning of spring. Reserve your seat today! For more information and reservation form visit http://ficct.caltech.edu/newyear/

The Irish band, Téada, will appear on Saturday, March 19 at 8:00 PM.

To celebrate the celebration of Saint Patrick’s Day alive for a couple more days with this line group of young men from Ireland who were named Best Traditional Newcomers 2003 by Irish Music Magazine.

Paul Finn from Laois on button accordion, his all-acoustic band is a joy to watch and hear, mixing tender ballads with driving jigs, reels, and horns. They feature the uniquely sweet playing of Sligo musician, Oisin Mac Diarmada, in tandem with the pulsating acapella harmony of Monaghan banjo/bouzouki player, Sean McElwee. Their uniquely crafted instruments are beautifully enhanced by two of Ireland’s finest acoustic musicians and vocalists from Dublin, on bodhrán, brings to the performance an unmistakable rhythmic vitality, superbly aided by Sligo’s Damien Stenson on uileann pipes.

Their second album, “Island Bound,” is open to any Caltech undergraduate. All qualified students are encouraged to apply. Our office is located in the Center for Student Services M/1, 222-5832. Or check the Folk Music Society website for application forms: http://www.sallemfest.org.

Key Bank’s Take 5 Scholarship is now available. There are five $2,000 scholarships available from February to June 2005. Please visit their website for requirements, deadlines and application forms: http://www.key.com/eduw.

USA Funds Access to Education Scholarships are available to students with demonstrated financial need. USA Funds will award up to $3 million dollars in scholarships. Scholarships range from $750 to $7500 per academic year based on enrollment. Please visit their website for requirements and application forms: www.usafunds.org. The deadline to apply is March 15, 2005.

The 2005 Olive W. Garvey Fellowships are now available. This fellowship, available to both graduate and undergraduate students, is awarded based on the best essay on the topic: “The great aim of the struggle for liberty has been equality before the law.” The deadline is May 1, 2005. For further information visit: http://www.independent.org/garvey.

The Minerals, Metals & Materials Society “TMS” offers a variety of scholarships. The deadline to apply is May 1, 2005. To preview scholarship eligibility information visit: www.tms.org/Students/award sPrograms/Scholarships.html

The Excellence in 3D Animation Award is a $1,000 cash gift awarded quarterly by Troy Studios to encourage students to pursue Graphic Arts and Animation. Application awards are chosen based on their entries in a contest. The contest is open to all students of all nations, regardless of field of study. To enter the contest, students should download free software from the www.animatedx.com website. Please visit their website for more detailed information. There are four quarterly deadlines each year (Feb 28, May 31, Aug 31, and Nov 30).

Edcued is offering their “DoubleTake” Sweepstakes. Win two $2,500 scholarships - One for you and one for your school. Applications are available in the Financial Aid Office, or on Edcued’s website: https://www.edcued.com/double take

American Public Power Association’s “APPAnet” has DEED Students Research Grants and Internships available each year up to ten (10) $4,000 student research grants and internships are awarded to students conducting research on an energy-related project. Students in energy-related disciplines are eligible. Students must obtain a DEED member sponsor for their student research grant or internship. Application awards are accepted January 15 and July 15 each year. For more information visit: http://www.appanet.org/res

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If you are a college student, who is interested in becoming a naval officer when you graduate, you should apply for the Baccalaureate Degree Completion Program (BDCP). This program pays future naval officers a monthly salary while they are still attending college. Qualified technical majors can receive a salary of approximately $1,500 per month for up to 3 years prior to graduation and qualified non-technical majors can receive this salary for up to 2 years prior to graduation. Additional information is available at: www.navy.com.

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Three Year Tech Career Comes To End For Veteran Reporter Walker

CONTINUED FROM PAGE 1, COLUMN 2

Matt Kern '03 wanted to sit down with Matt for a "friendly chat." I begged him not to; I was sure I'd lose one of my most promising freelance writers.

I was silly to worry. Whereas Abe lilted in the face of controversy, Matt kept writing, racking up a tally of stories that ran from Rotation to faculty member to student - a couple weeks later, writing a piece mocking Rockwood for dressing up as rich people at a Danbury dinner. And perhaps most surprising: even after that fresh-year slight, Matt went on to become first vice president and, last month, president of Rockwood House.

Matt's writing and reporting wasn't clean from the start; he came in with no news experience. But editing the paper from week to week, I saw Matt's writing develop. He landed his first signature piece, a review of 2003 at Caltech's Master Plan for campus development. It was rare for then-CABS Director Tom Mannion to comment on the Tech, but that week he complimented me on Matt's comprehensive, rigorously accurate piece. Enough to make an editor's heart throb, Matt's reporting was ripe with quotes, enough to fill the top of a page with box-quotes.

Adding it all up when I sought out a successor in summer 2003, the choice was clear. Only Matt had the journalistic verifiability, motivation, and sheer dedication to be news director.

As an editor, Matt has made his mark in management. Besides putting out a clean, solid Tech every week, Matt has assembled a crew of reporting talent unmatched in both quantity and ability, so much that had Matt won, he had the additional staff to support four new pages and three new sections. Wow.

Make no mistake: Matt Walker deserved to win last Monday's election. It's a sad election that forces someone as dedicated as Matt out of a role made for him. But how gracefully Matt has handled the defeat stands out: volumes of praise about his character. Matt may not have been endorsed by Dabney, Ricketts or TheFacebook.com. His supporters may not have posted signs saying his opponent stinks, and no one chanted "Matt Walker" at midnight dances.

But in Matt, we had more than packaging: we had someone quiet, someone determined, someone who really cared about the Tech. Having worked both with and for him, I can vouch for that: "Our campaign is based on substance, not noise," he wrote. That is the Matt Walker I'll remember: no bells, no whistles, no electioneering. Just 49 issues of good old-fashioned hard work.

Book Features Caltech

The book concerns John Whedon Parsons, a pioneer in the field of rocketry while at Caltech during the 1930s and 1940s. Parsons was a self-taught amateur at aerospace engineering - something the scientific establishment ignored by the scientific establishment.

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Poet, Physicist Speaks On Women in Science

Dr. Frances Cornuda, Chancellor of UC Riverside, speaks about her experiences as a poet turned scientist.
Avery Facing Challenges While Preparing for Next Year's Frosh

Continued from Page 1, Column 5

The existing houses can help Avery in this stage, but they should not just point out existing traditions; instead, Avery should have a chance to develop its own community. He also explained that Avery lacked a central lounge, which they had hoped to have when planning Avery, because of the costs. Incidentally, Professor Lorden mentioned that he was in Page House when it became a house, although he jokingly discredited himself from any of Page's traditions.

Professor Catherine Jurca and Master of Student Houses also expressed their own hopes for Avery. She liked the idea of an open Avery that was available for anyone to use, regardless of membership in Avery. The issue of physical isolation was brought up again. Chris said, "I encourage everyone to think of ways to get around this," although he noted that Avery would have a special opportunity for next year, when the South House residents will be moved next to Avery. At this point, however, junior James Mao argued against many of the previous points. He said, "I like the social environment as it is now because he is busy and prefers social events just to get food. He also stated that any change from Avery would force students out of their shells and while some aspects of the houses may be considered hazing, he argued that all freshmen should go through the house system. In addition, James stated his unhappiness with the representatives on Avery's council.

Sophomore Nick Hustler of Ricketts House stated his appreciation for the benefits the houses currently have. He claimed he never felt forced. He's very grateful because I was very introverted when I came here. I still get my work done. I still get fun too now." Ricketts' President Antonio Pizarro agreed with Nick. In addition, he said, "I'm happy that Avery wouldn't hurt his position, because he worried about some of the students that might be harmed. Students who could benefit socially from strong house traditions, and those on the other extreme who prefer no traditions at all, could potentially lose representation in Avery, and I don't want that to happen." One student noted that she knew personally of one girl who felt pushed back in after being turned off from her house experience. This caused her to become less social, so she argued that it might be worth protecting those who don't respond well to pressure. The audience then voted on the items listed on the posters. There were three colors, the categories being Avery residents, Avery residents who don't identify with Avery, and non-Avery students. Each participant voted for three items. The Avery stickers tended to cluster on "low pressure," "diversity," and "open to all." Non-Avery voters liked the idea of Avery being a resource for the entire Caltech community.

Not many graduate students were present, but one was there offered many thoughts. He noted that "not even all the graduate student rooms are filled" since graduate students don't think of Avery often. There are only around 18 graduate students on Avery. However, he expressed concern with the cost of living in Avery, with a higher room and board plan compared to other offerings. He stated that he enjoyed his experience in Avery but believes that the cost will force him off.

Professor Ken Libbrecht, who lives in Avery, helped begin the move to allow freshman into Avery. When he first came to Avery, he noticed that it was unpopulated among undergraduates, and it became clear why. Undergraduates treated Avery as a last resort if they got kicked off, and if they did get stuck in Avery, they would stay there because students would give Avery a doleful state. Following freshman into Avery will achieve his goals at once. Avery can build a community, and students in the existing houses will be happier when their housing crunch will be alleviated. In addition, he expected to see his students come to Avery in a few years, "change is expected."

In regard to planetary formation, Spitzer has found that they can actually form around brown dwarfs, which in turn can orbit about active stars. Another interesting result is that planets can form in only a million years from a star's creation, much earlier than previously expected. Infrared spectrum analysis of far-away gases provokes another interesting possibility. They turn out to be filled with a rich assortment of organic compounds. The newly developed field of astrobiology is now studying these molecules to determine if it may have been possible that Earth was bombarded with organic molecules that catalyzed the formation of life. Of this, it would raise the probability of life on far-away worlds.

The telescope's design, at least conceptually, is not overly complicated. It consists of a framework made by Lockheed Martin. A solar panel powers the telescope as it orbits our sun. A short-and-long-wave-camera designed by Harvard takes the observations, making use of infrared technology developed by the military in relation to heat-seeking technologies.

Half of the telescope is black on the outside to radiate heat away from the instruments. The camera has to be kept cryogenically chilled due to their extreme sensitivity to thermal noise. Enough liquid nitrogen to keep the camera cool for another four years, at which point the telescope will no longer be operational. The $70,000,000 Spitzer project has a close association with Caltech. Caltech astronomer Bob Leighton developed much of the foundation for deep-space telescopes when he compiled a two-micron survey of the galaxy. The telescope's design, at least conceptually, is not overly complicated. It consists of a framework made by Lockheed Martin. A solar panel powers the telescope as it orbits our sun. A short-and-long-wave-camera designed by Harvard takes the observations, making use of infrared technology developed by the military in relation to heat-seeking technologies.