Hubble, ALMA probe primitive nature of “space blob”

CYNTHIA ELLER

Caltech Today

The Subaru Telescope, an 8.2-meter telescope operated by the National Astronomical Observatory of Japan, has been combing the night sky since 1999. Located at the Mauna Kea Observatories in Hawaii, the telescope has been systematically surveying each degree of space, whether it looks promising or not, in search of objects worthy of further investigation. One of the most fascinating objects to emerge from the Subaru Telescope’s wide-field survey—Himiko—was discovered in 2009. Himiko, a “space blob” named after a legendary queen from ancient Japan, is a simply enormous galaxy, with a hot glowing gaseous halo expanding over 55,000 light-years. Not only is Himiko very large, it is extraordinarily distant, seen at a time approximately 800 million years after the Big Bang, when the universe was only 6 percent of its present size and stars and galaxies were just beginning to form.

How could such an early galaxy have sufficient energy to power such a vast glowing gas cloud? In search of the answer to this question, Richard Ellis, the Steele Family Professor of Astronomy at Caltech, together with colleagues from the University of Tokyo and the Harvard-Smithsonian Center for Astrophysics, undertook an exploration of Himiko using the combined resources of the Hubble Space Telescope and the new Atacama Large Millimeter/submillimeter Array (ALMA) in Chile’s Atacama Desert. The data collected through these observations answered the initial question about the source of energy powering Himiko, but revealed some puzzling data as well.

The Hubble images, receiving optical and ultraviolet light, reveal three stellar clumps covering a space of 20,000 light-years. Each clump is the size of a typical luminous galaxy dating to the epoch of Himiko. Together, the clumps achieve a prodigious rate of star formation, equivalent to about one hundred solar masses per year. This is more than sufficient to explain the existence of Himiko and its gaseous halo. The observation of the three stellar clumps is exciting in itself, as it means that Himiko is a “triple merger,” which, according to Ellis, is “a remarkably rare event.”

But a surprising anomaly emerged when Himiko was observed by ALMA. Although the giant gas cloud was bustling with energy at ultraviolet and optical frequencies, it was comparatively sleepy in the submillimeter and radio ranges that ALMA detects. Ordinarily, intense star formation creates dust clouds that are composed of elements such as carbon, oxygen, and silicon, which are heavy in comparison to the hydrogen and helium of the early universe. When these dust clouds are heated up by the ultraviolet light emitted by the developing stars, the dust reradiates the ultraviolet light out into the universe at radio wavelengths. But ALMA did not receive significant radio signals from Himiko, suggesting that heavier elements are not present. Also missing was the spectral signature associated with the emission of gaseous carbon, something also common in galaxies with intense star formation. Both of these nondetections—of substantial radio waves and of gaseous carbon—are perplexing, since carbon is ordinarily rapidly synthesized in young stars. Indeed, carbon emission has heretofore been recommended as a tracer of star formation in distant galaxies. But, as Ellis and his fellow astronomers found, Himiko does not contain the heavy elements that are the most exciting result!

The paper reporting the results of this research, titled “An Intensely Star-Forming Galaxy at Z ~ 7 with Low Dust and Metal Content Revealed by Deep ALMA and HST Observations,” will be published in the December 1, 2013, issue of the Astrophysical Journal. The work was funded by NASA through a grant from the Space Telescope Science Institute, the World Premier International Research Center Initiative (WPI Initiative), and the Japan Society for the Promotion of Science (JSPS).
Food with Mannion!

Do you like eating food? How about free food at nice restaurants? Ever want to tell the world exactly what you think of said food? The Tech will be beginning a new column to chronicle the foodie experiences of new writers every other week...The Catch: They’ll be going head-to-head with Tom Mannion who will be reviewing the same restaurant. If you have ever thought you were more of a gourmand than our resident master chef, now’s your chance to prove it!

Email us for a spot on the list at tech@caltech.edu

Write articles for the Tech

get paid up to $30

ASCIT Minutes

Minutes for November 19, 2013. Taken by Catherine Jamshidi

Officers Present: Zach Rivkin, Connor Coley, Malvika Verma, Connie Hsueh, Michelle Tang, Catherine Jamshidi

Guests: Connor Rosen, Margaret Lee

Call to Order: 9:05pm

President’s Report (Zach):

• In my candidacy statement from April, I advocated for student leadership to take a level headed approach with the administration and focus on increasing student mental health resources. The process has usually been successful, and the most recent and largest accomplishment is an evening hours pilot program. After half a year of civil discussions with Kevin Austin, Leslie Nye, Tom Mannion, Annela Sargent, John Dubris, plus many other invaluable participants, along with a recent hardline passionate Faculty Board presentation, a limited evening hours trial will go into effect until the end of this academic year. This is an incredible step forward for the Caltech safety net and auspiciously points towards a positive shift in relations between students and student affairs. I hope to see further improvements during the next half of ASCIT’s term and in the years ahead. Significant thanks goes to those mentioned above along with the student leadership, the Head UCCs, and especially to the IHC Chair Connor Coley for spending an innumerable number of hours and offering constant support through the entire process.

• Club funding has been completed.

• The ASCIT retreat and midyear reviews occurred. Survey responses were very helpful for framing discussions and supplying appropriate feedback.

Officer’s Reports:

• V.P. of Academic Affairs (ARC Chair: Malvika):
  o Meeting with Provost Online Education Committee
  o Flipped classroom vs. online courses
  o Faculty don’t want to dumb down standards
  o Concrete proposal: CS0

• The second Student-Faculty Lunch was this past Thursday. We have continued to see a large amount of interest in this program from both students and faculty.

• The ARC is interested in adding a compliments section to the ARC Concern Box on Donut.

• V.P. of Non-Academic Affairs (IHC Chair: Connor):
  o The IHC is working with Jon Webster and Dining to enter nutrition information of food options. If you’re interested in helping us with data entry (for some money), send me an email. We’ll likely begin around winter break.

  o Invite your professors to your house dinner! It’s a great way to get to know them in a non-academic context.

• Director of Operations (Connie):

  o Remember that you can still register a new club anytime! Apply at clubs.caltech.edu

  o Treasurer (Monica):

  o We finished Club Funding and I will be publishing the breakdown of the 2013-2014 budget on Donut.

• Social Director (Michelle):

  o The Ice House comedy show event will likely be made a termly event.

  o Page Interhouse: Daft Punk was this past weekend.

  o The Wallpaper concert will be Friday, December 6th, at 9PM on Becktel Mall (just west of Millikan).

  o There will probably be an after-party (details to follow) with a Snap Yourself! Photo booth.

  o Secretary (Cat):

    o Connor Rosen and I have created a follow-up survey to gauge trends in feedback on the student experience. It should take no more than 5 minutes to complete and there will be several Amazon Gift Cards awarded to randomly selected people who responded to the survey. Go fill it out!!

    o I sent out all of the club funding decision emails and tried to provide reasoning for our decisions. If any clubs have any questions, please do not hesitate to ask!

    o I’m working to schedule ASCIT meetings for 2nd term.

    o I’ve posted all of the recent minutes on the Donut Website and have compiled a list of action items to follow-up on for each BoD member.

If anyone has any questions or concerns about a section of the minutes please email the appropriate officer. We are happy to answer any questions.

Meeting Adjourned: 10:53 pm
Caltech Y Column: Look out for new events

Insights into ASCIT: Caltech club funding

ASCIT BOARD OF DIRECTORS
Contributing Writers

Hey everyone! We, the ASCIT Board of Directors, are going to try to give you insight into what we’re working on by writing a series of Tech articles. These articles will be written as needed and will cover various aspects of what we discuss at our meetings.

We have recently finished the club funding process by holding a number of meetings to discuss how best to distribute our club-related budget. This year, we distributed a total of $16,625 to 50 different clubs on campus. We’ve broken them up by category for convenience (see pie chart).

Our goal is to fund clubs that will directly benefit Caltech undergraduates; we are trying to support general student well-being and build community amongst Techers through your shared interests.

In addition to general club funding, ASCIT also has event funding for special events that you would like to put on. We encourage you to apply for this different source of funding (open throughout the year).

If you have any questions, comments, or concerns, we will be holding our next meeting on Monday, December 2nd, at 10PM in Chouest. Please feel free to join us in our weekly meetings at the Caltech Y - located in the Tyson House (Bldg. 128), just north of the Caltech Credit Union – is open Monday through Friday, 9am to 5pm. First priority will be given to students who have not participated in a MOSH affiliated event in the past year (i.e. West Side Story or Book of Mormon). Students will be permitted to enter the lottery for one or two tickets, however their guest must also be a Caltech undergraduate. Students will be notified of the lottery results by Wednesday, Nov. 26th. Explore LA is coordinated by the Caltech Y in partnership with the Master of Student Houses. Contact Laura Santoso (santoso.laura@gmail.com) or Jesey Yueng (jueseung@caltech.edu) with any questions. Transportation is not provided.

5. Outdoor Adventures T-Shirt Design Contest
Do you have graphic design skills? We need your help! The Caltech Y Outdoor Adventures group is designing and printing custom T-shirts to wear when hiking, having fun outdoors, or even for daily use around campus. We are looking for a cool design that incorporates our love for hiking and outdoor activities with our Caltech affiliation. The creator of the winning design will get a free T-shirt and a $25 discount on the Caltech Y Outdoor Adventures camping trip of their choice (good for trips to Yosemite, the Grand Canyon, and other National and State Parks). Submit your design in pdf or .ai form to Jeremy Sandler, jsandler@caltech.edu.

If you have any questions at all, feel free to contact the Caltech Y at (626) 395-6163 or caltechy@caltech.edu. Feel free to drop by at one of our weekly meetings at the Caltech Y (305 S. Wilson, next to CEFCU), Mondays at noon. Lunch is provided. Go to http://caltechy.org/lists/ to self-subscribe to announcement lists for upcoming events.

For a student’s perspective, feel free to contact Phoebe Ann at phoebe.ann2@gmail.com or Laura Santoso at santoso.laura@gmail.com.

PHOEBE ANN LAURA SANTOSO Contributing Writers

Hi everyone! This is the Caltech Y Column, designed to inform you about the Y and the opportunities we provide for you to inspire your passions, whether by participating in our programs or leading your own!

1. Ice Cream Competition!
North Houses | Sunday | December 1st | 7:00-9:00 pm | Caltech Y
South Houses | Wednesday | December 4th | Evening, Time TBA | Caltech Y

The Caltech Y is hosting a Fosselman’s Ice Cream Competition among the houses, sponsored by Tom Mannion! The houses will be competing to create the best flavor of ice cream, and the winner will get their ice cream flavor featured at Fosselman’s. The competition will run from 7-9pm on Sunday, December 1st. The houses will be competing to create the best flavor of ice cream, and the winner will win $1000, and there will be additional prizes from the Y.

There will be two semifinal competitions taking place at the Caltech Y house (505 S. Wilson Ave). Winners will be decided by popular vote but the finer points are still being worked out.

2. Social Activism Speaker Series:
First Front of the Coup
Monday | November 25th | 7:30 pm | Beckman Institute Auditorium
For decades, Boots Riley, musician, vocalist, writer, and public speaker, has been an integral part of the progressive struggle for radical change through culture. Boots has appeared on Fox News’s Hannity and Colmes, RSS, and ABC’s Politically Incorrect with Bill Maher. He has been featured addressing a variety of subjects from music to grassroots organizing, to US imperialism and racism, recently winning awards from the AFL-CIO for his participation with the Tell Us the Truth Tour. Riley continues to effect social change through his artistic and political work. Contact caltechy@caltech.edu for more information.

3. Lion King Broadway Musical – Caltech Y Explore LA Series
Enter the Undergrad Ticket Lottery at the Caltech Y Today until Monday, Nov. 25th at Noon Show Details - Saturday | January 11 | 8:00 pm (2 hours and 40 minutes with intermission) | Pantages Theatre | $35 each | Undergrads
The Master of Student Houses (MOSH) and the Caltech Y are offering a lottery for undergrads interested in purchasing tickets to Disney’s THE LION KING – A Broadway musical at the Pantages. Marvel at the breathtaking spectacle of animals brought to life by award-winning director Julie Taymor, whose visual images for this show you’ll remember forever.

Visit the Caltech Y to enter an undergrad lottery for limited tickets to the Lion King starting today until this Monday, November 25th at noon. The Caltech Y - located in the Tyson House (Bldg. 128), just north of the Caltech Credit Union – is open Monday through Friday, 9am to 5pm. First priority will be given to students who have not participated in a MOSH affiliated event in the past year (i.e. West Side Story or Book of Mormon). Students will be permitted to enter the lottery for one or two tickets, however their guest must also be a Caltech undergraduate. Students will be notified of the lottery results by Wednesday, Nov. 26th. Explore LA is coordinated by the Caltech Y in partnership with the Master of Student Houses. Contact Laura Santoso (santoso.laura@gmail.com) or Jesey Yueng (jueseung@caltech.edu) with any questions. Transportation is not provided.

4. Adventure 101: Winter Sports in Southern California
Thursday | December 5th | 12:00 pm
Are you looking for some fun and local winter activities, but think that Southern California only offers summer sports? Come find out about all different types of winter sports activities here in Southern California at the next Caltech Y Adventure 101 talk. Space is limited and lunch is provided so sign up is required. Location details will be included in your confirmation.

5. Outdoor Adventures T-Shirt Design Contest
Do you have graphic design skills? We need your help! The Caltech Y Outdoor Adventures group is designing and printing custom T-shirts to wear when hiking, having fun outdoors, or even for daily use around campus. We are looking for a cool design that incorporates our love for hiking and outdoor activities with our Caltech affiliation. The creator of the winning design will get a free T-shirt and a $25 discount on the Caltech Y Outdoor Adventures camping trip of their choice (good for trips to Yosemite, the Grand Canyon, and other National and State Parks). Submit your design in pdf or .ai form to Jeremy Sandler, jsandler@caltech.edu.

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For a student’s perspective, feel free to contact Phoebe Ann at phoebe.ann2@gmail.com or Laura Santoso at santoso.laura@gmail.com.

The Feynman Prize is made possible through the generosity of Ione and Robert E. Paradise, with additional contributions from an anonymous local couple. Nominations for the Feynman Teaching Prize are welcome from faculty, students, postdoctoral scholars, staff, and alumni.

All professorial faculty of the Institute are eligible. The prize consists of a cash award of $3,500, matched by an equivalent raise in the annual salary of the awardee. A letter of nomination and detailed supporting material, including, but not limited to, a curriculum vitae, course syllabus or description, and supporting recommendation letters should be emailed to kkerbs@caltech.edu or directed to the Feynman Prize Selection Committee, Office of the Provost, Mail Code 206-31, at the California Institute of Technology, Pasadena, California, 91125. Nomination packages are due by January 2, 2014.

Additional information including guidelines for the prize and FAQ may be found at http://provost.caltech.edu/Feynman-TeachingPrize. Further information can also be obtained from Karen Kerbs (626-395-6039; kkerbs@caltech.edu) in the Provost’s Office.

Heres your chance to nominate your favorite professor for the 2013-14 Richard P. Feynman Prize for Excellence in Teaching! You have from now until January 2, 2014 to submit your nomination package to the Provost’s Office to honor a professor who demonstrates, in the broadest sense, unusual ability, creativity, and innovation in undergraduate and graduate classroom or laboratory teaching.

The Feynman Prize is made possible through the generosity of Ione and Robert E. Paradise, with additional contributions from an anonymous local couple. Nominations for the Feynman Teaching Prize are welcome from faculty, students, postdoctoral scholars, staff, and alumni.

All professorial faculty of the Institute are eligible. The prize consists of a cash award of $3,500, matched by an equivalent raise in the annual salary of the awardee. A letter of nomination and detailed supporting material, including, but not limited to, a curriculum vitae, course syllabus or description, and supporting recommendation letters should be emailed to kkerbs@caltech.edu or directed to the Feynman Prize Selection Committee, Office of the Provost, Mail Code 206-31, at the California Institute of Technology, Pasadena, California, 91125. Nomination packages are due by January 2, 2014.

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NOMINATE YOUR FAVORITE PROFESSOR FOR THE FEYNMAN TEACHING PRIZE!
I do not wish to understimate the critical part which graduate RAs play in the safety net – they are a unique and irreplaceable resource – but unfortunately adding multiple of them per House has not had what I was the intended effect.

I firmly believe that Caltech is not beyond saving, and that if we band together and speak up using our collective voice, we can still reverse the toxic trend that threatens to tear our institution to the ground.

To push [UCCs and RAs] to add their voices to social programming and house governance – places where their voices are sometimes decidedly unwelcome – is needless overreach and distracts from the true purpose of the programs: to ensure student mental health.
**FEATURE**

**The Hunger Games: Catching Fire**

**Awaiting the sublime**

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**SHANNON WANG**
Contributing Writer

**Spoiler Alert: The entire movie is spoiled in this review, so if you haven’t watched this movie yet but plan on doing so, turn back now.**

I originally intended to write about the similarities between *Les Miserables* and *Catching Fire*. I wanted to discuss the sudden influx of movies about revolution, I wanted to show how the fury in the films is reflective of the anger and despair permeating the real world, and then I watched the film and realized that there is nothing I can write that will manage to even touch the passion in the film—the cast brought their characters to life with such ferocity that they made the despair palpable, the fear tangible. The director’s brilliant use of symbolism has given us such perfect descriptions of the rising crescendo of revolution that I can only write about his genius and hope that I do his work justice.

For those who didn’t pay attention to all the doors in the movie, *Catching Fire* is all about thresholds, entrances and empty spaces that need filling. It’s about yearning, it’s about awaiting the sublime. The symbolism makes its appearance at the beginning, when Katniss and Gale step under the chain link fence and show the audience that District Twelve is a bleak wasteland. Once started, the motif of hollow spaces following entrances doesn’t stop—when Katniss enters the Vicors’ Village, we’re struck by how similar the village is to a graveyard. When she barges into Haymitch’s house, the house may as well be empty, for all it holds is disappointment and coldness. Entering her own house doesn’t lead to a much nicer environment—the walls are all bare, the house seems unfilled in, and when she ventures further, she encounters President Snow, who rips away her hope and leaves her with damnation.

This is when we start to have an inkling about what these symbols mean—this is when we notice how every door that Katniss passes through is a choice she didn’t get to make. Katniss is called through the doors by President Snow, dragged behind them by Peacekeepers, sped through them on trains, and hurtled through them into the arena on glass elevators. That relentless motion she is trapped in is reminiscent of a conveyor belt, as it should be: Katniss and her fellow victors may as well be pigs ready for slaughter. The very act of entrance has become the butcher’s knife; it represents jumping out of the frying pan and into the fire. Katniss is yearning for hope and rescue every time she enters a room, but every place she ends up in is “empty” for choice to open a door for herself. It takes the entire film for Katniss to realize this and open the figurative door, but she can be forgiven for this. To quote Rainer Maria Rilke’s *Duino Elegies*, who, if the people cried out, would hear them among the angels’ hierarchies? And if an angel did swoop down and gather the people to his breast, then the people would be annihilated by the angel’s mere presence. “Every angel is terrifying,” Rilke writes, and if the fury spread like wildfire across the districts. Katniss is the girl on fire—she represents revolution, so she must enter the world. And so she does. At the climax of the film, Katniss shoots down the force field in the sky and allows revolution to flood her life, thus cementing her role as Mockingjay and martyr—The shot of her lying in the clutches of the hovercraft with her arms flung out took my breath away, because the amount of symbolism worked into that one scene is stunning. Katniss is a Christ figure now—we can see that from the way she lies in a crucified pose. But what makes this scene so beautiful is that it highlights how she is being forced into the role of the martyr and how her life is being lifted by one of the Capitol’s hovercrafts and taken away from Peeta shows how she really has no say in her own story in how she is presented. And the fact that her free will is being taken away again after she has made her first choice to open a door for herself. I could go on for pages, but I won’t, because they’re not what the movie is about. *Catching Fire* is about yearning, it’s about dragging the audience through every stage of despair until they reach the emotional tipping point. Katniss’s journey and choices are generally expected at the gym for most all activities. There are some exceptions, however. For sports played on a grass field, get cleats, and for the weight lifting activities of dead lifting and squatting, get a pair of sneakers as these lifts are best performed with a flat based shoe, which trainers are not in general. As I had mentioned previously, you have a lot of room to experiment with the color of your trainers I should adventure. Next week I will be either continuing the training or starting a piece on travelling, so look out for that! Hope you guys are pulling your first choice in a pair of shoes last couple weeks.

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**BRAD CHATTERGOON**
Contributing Writer

It’s week 9 guys! Term is almost over. This week’s article picks up where the previous article left off.

1.) Pants. These are obviously non-negotiable when out in public (what you wear, or don’t wear, in your gym is up to your business). The first thing that I want to mention about this item at the gym is that I don’t want to see anyone wearing jeans to the gym.

Let me repeat that for clarity: NO DENIM.

"...I don’t want to see anyone wearing jeans to the gym. Let me repeat that for clarity: NO DENIM."

2.) Shorts. These have "sweat" in the name so, that’s right you guessed it, they are appropriate for working out those calories at the gym.

**Sweatpants**

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The color rules for sweatpants also vary depending on what you want to cool down a bit faster. There are versions of these pants that are designed for working out but in some cases board shorts or khaki shorts are acceptable depending on what you’re working out that day.<!-Image feature->

..."It’s week 9 guys! Term is almost over. This week’s article picks up where the previous article left off."

"...I don’t want to see anyone wearing jeans to the gym. Let me repeat that for clarity: NO DENIM."
Today’s Puzzle: Crossword

Across
1. Celestial body
5. Circuit
8. Hard kind of stone
13. Field sport
14. Female horse
15. Spooky
16. Remove from office
17. Pivot
18. Used to control a horse
19. Theatrical group
21. Molecule
23. Unit of play in tennis
24. Bird shelter
26. Female sheep
27. Solemn
29. Reclamation
34. Assistance
35. Snare
37. Clan
38. Baby bed
40. Projecting bay window
42. Restricted
44. Sweet pulpy tropical fruit
46. Way out
48. Regurgitated food of a ruminant
49. Put into the care of someone
52. Talisman
54. Jurisprudence
55. Excavation
56. Globe
59. A turn made in skiing
61. Bid
65. Herbaceous plant
67. Pleasant
69. Donate
70. Distribute
71. Trampled
72. Large woody plant
73. Shelf
74. Hankering
75. Group of animals

Down
1. Blemish
2. Travel
3. In addition
4. Corpulent
5. Slack
6. Song for solo voice
7. Annoy persistently
8. Agitation
9. Sheltered side
10. Part of the eye
11. Value of Roman IX
12. Bid
14. Artist of consummate skill
20. Vegetable matter, can be used as fuel
22. Be obliged to pay
25. Rend
27. Temptress
28. Decree
30. Epoch
31. Flinch
32. Approximately
33. Give temporarily
34. Unit of area
36. Pastry item
39. Exclude
41. Set of evaluating questions
42. Restricted
45. Throb
50. Was seated
51. A score in number
53. Continuance in time
56. Ellipse
57. Irritate
58. Fearless and daring
60. Morass
62. Desperate
63. At any time
64. Part of a woodwind instrument
66. Captain’s journal
68. Swindle

W A S P E C H O S E L F
A L T O G R A M P L E A T
S O R E G I V E A B A T E
T H U M B S O N G O P E N
E A T E P I C L A W
L A I S F E W F O B
I N C O M E H E L E G O
D A L E R E U R O
L I E A C O C T A N D E N
E L F D U D M A I D
S O L D P O N D R O W
G A L A F O R D E P O C H
A T O L L V I E W I D E A
S O L V E A C R E A T E L
P L E A E N D H O N E

L A M B S T A M P P L A Y
I D O L F O K E R R I V E
S O L E A S I D E E V I L
T R A N P S N I P S E A L
S E R I E S C A V E R N
S T I F F Y E N
B A T H L I E D S T A L K
E R A D O R M A N T E L I
E E R I E M U R C O R E D E E R
M E N R E V E
A N I M A L A R C A N E
S P O T F E A L N Y I O N
A R I A F A K O F C L O T
C O S T I S S U E L O S E
K N E E N E E D Y E W E R
GoCaltech

The Beavers started well but couldn’t continue that early momentum as they fell to Linfield 60-54 at the Hilton Winter Tournament hosted by UC Santa Cruz on Saturday afternoon.

Caltech was clicking on all cylinders during the game’s first 6:42. The Beavers held the Wildcats to just one field goal en route to a building a 15-4 lead. Four different players scored for Caltech, led by Bryan Joel’s five points, during that early outburst.

Linfield responded with a scoring burst of their own. During the contest’s next 6:28, the Wildcats outscored Caltech 14-2 as they took their first lead of the game 18-17.

Sophomore Kelechukwu Ikenna Emezie tries to keep the ball from Linfield.

The lead changed hands four times over the next four-plus minutes. Linfield grew a 23-22 lead by scoring the half’s final nine points in taking a 32-22 lead at the intermission.

Beavers swimming, diving team travels to Redlands for first meet of the season

GoCaltech

The Caltech swimming and diving squad began the 2013-14 campaign with a dual meet against SCIAC foe Redlands on Saturday morning.

It was also the coaching debut for Jack Leavitt as the Beavers head coach.

With a vast majority of the men’s team still competing for the water polo team, the Beavers were at a severe disadvantage from the start. Nonetheless there were still highlights for Caltech.

Alex Place won both the one- and three-meter diving competitions. The first-year scored 182.05 points to claim the three-meter win by nearly 20 points. During the one-meter event he scored 149.85 points to win by 9.50 points.

Kevin Yu had a solid opening meet. During the 100-yard butterfly he clocked a time of 54.66 to finish second in that event. During the 100-yard breaststroke he took second as well by touching the wall in 1:05.53. He also competed in the 200-yard IM where he finished third with a time of 2:06.36 which was just .32 seconds away from second place.

The women’s team garnered their points from a variety of sources during the meet.

Zofia Kaczmarek scored in both one- and three-meter diving. In her first ever diving competition she scored 119.35 during the one-meter competition for a fifth place finish. She placed in the same spot during the three-meter with a score of 77.60. Her agility comes from her high school days in gymnastics.

Suzannah Ozekowsky scored two points in the 180-yard backstroke (1:24.99).

Iris Liu’s time of 1:10.27 in the 100-yard freestyle put two more points in the Beavers team total.

Aashrita Manga also scored two points with a time of 1:32.29 in the 100-yard butterfly.

In her first collegiate meet Kalyn Chang time of 27.72 in the 50-yard freestyle also tallied two team points for the visitors.

Weekly Scoreboard

Men’s Water Polo vs. La Verne @ Orange L, 8-16 Final
Men’s Basketball vs. Linfield @ Santa Cruz L, 54-60 Final
Men’s Swimming & Diving at Redlands L, 178-31 Final
Women’s Swimming & Diving at Redlands L, 200-24 Final
Men’s Water Polo at Occidental L, 6-13 Final
Men’s Basketball vs. St. Vincent L, 67-77 Final

The lead changed hands four times over the next four-plus minutes. Linfield grew a 23-22 lead by scoring the half’s final nine points in taking a 32-22 lead at the intermission.

One of main culprits for the Beavers was a 14-turnover half which Linfield turned into 15 points in building their 10-point lead and helping them overcome their early deficit.

The Wildcats were able to keep their lead in double digits from a majority of the second half but a defiant Caltech team fought back. Despite being down by 52-35 with just over eight minutes left the Beavers dwindled that lead down to single digits.

After seemingly having the game wrapped up, Linfield was forced to hit foul shots down the stretch. Joel hit a three-pointer with 16 ticks left to bring the Beavers within 57-51.

The Wildcats hit just one of two free throws on their ensuing possession then Joel hit another three-pointer with seven seconds left.

With Caltech down 58-54, they pressured the inbounds but Linfield was able to put the ball in-play then sealed the game with a pair of free throws.

Lawrence Lee hit all five of his field goal attempts in helping him produce a 13-point effort. The first-year also grabbed a game high and career best eight rebounds in helping Caltech hold a plus-eight rebounding edge.

Mason Rodby came off the bench and went 8-for-9 from the floor in leading all Linfield scorers with 17 points.
Unoriginal Jokes

Where do you find chili beans?

I don't know...

At the North Pole!

Kerry Betz

Acquired Taste

Dr. Z

For more photos, videos, and archives of previous issues, check out the Tech website!

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