**Wasserburg ‘Watsons’**

By Joel Rubenstein

Have you ever wondered why isotopic abundances are so uniform from sample to sample? Gerald J. Wasserburg, Professor of Geology and Geophysics, spent the better portion of his Earnest C. Watson lecture Wednesday talking about exceptions to this uniformity. In the solar system, which has had very little contact with the rest of the galaxy since it was formed 4.55 billion years ago, sample variations do occur. When meteorite strikes earth, geologists get excited the isotopic abundances in the meteorite provide clues about the origin of the solar system. The existence of isotopic abundance variations shows that the solar system was not thoroughly mixed when it was formed.

The Watson lecture will be Wednesday, March 29 at 8pm. Dr. William A. Fowler will speak in "The Case of the Missing Solar Neutrinos." The Watson lectures are free and are open to the public.

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**Fiorello a Sucess**

By Joel Rubenstein

The ASCIT Musical, Fiorello, had four performances last weekend. The musical tells the famous tale of Fiorello H. LaGuardia, the Mayor of New York from 1934 to 1945. Young Choo played Fiorello, a New York lawyer with a strong sense of social justice. Seizing the issue of unfair working conditions in the garment industry, he offers to be Republican candidate for congress in his district. The Republican politicians always have great difficulty finding someone to oppose the ruling Tammany Hall Democrats, so they accept his offer and nominate him.

He wins and goes to Washington, where he makes a speech in Congress advocating U.S. involvement in World War I.

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**Tech Takes Third in Putnam**

The Caltech Math team took third place in this year's Putnam Math contest. The team was bested by Harvard University and University of California at Davis. Freshman Peter Shor scored in the second group of five between sixth and ninth place, and won $100.

The Caltech team consisted of seniors Karl Heuer, who got honorable mention, freshman Peter Shor, and ex-ASCIT President Bert Wells. Michael Chauder got honorable mention, although he wasn’t on the Caltech team. For their third place, Caltech won traditionally used to support the Eric Temple Bell Undergraduate Mathematics Research Prize and the Morgan 3rd Prize and each team member won $50.

The winning team from Harvard University consisted of George Gilbert, Philip T. Larrowing, and Tim J. Steger. Their team won $500 and they each won $100.

The second place team consisted of Daniel and David Jernion, and Stephen R. Peck. They won $75 and UC Davis won $400.

The fourth place team was Princeton, and M. I. T. took fifth place. Case Western Reserve, Harvard Univ., Pomona College, University of Waterloo, and Yale Univ. took honorable mention.

Caltech’s poor showing is in sharp contrast to the past. Tech has won it the last two years and five times in the last six years.

Numerical scores are not yet in for this year. But last year Karl Heuer received a 46 which was 20th in the country and Commander Bert got a 52, which nettled him twelfth place.

The test was given last Dec 3rd and consisted of twelve difficult math questions divided into two groups of six. Three hours were allotted for each group. A maximum of ten points is possible on each question, giving a total possible of 120. To give you an idea of the difficulty, the most common score is zero and the mean score is two.

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**Never a Nobody Vogt for Physics**

By Kevin Drum

It was late Thursday and we needed a story about the man who had been chosen to be the new chairman of the Math, Physics and Astronomy Division, Dr. Robbie Vogt. Finally, we could wait no longer so I was commissioned to go out and get the story. I had talked to Dr. Vogt many times before and was sure I could get an interesting story, even at this late hour. His secretary wasn’t in, so I walked into his office and said hello. "You again?" he asked. I knew he was only kidding, but even so, I had to wonder. After all, Dr. Vogt is not the sort of person you would want to earn. "You know," he said, "I saw you through my window walking toward the building and thought to myself that I was glad that now I was a nobody and you wouldn’t want to talk to me. This was bad news. My sources had told me he was going to be the new chairman of the division when Dr. Maarten Schmidt took over the Hale Observatories. But I figured, what the hell, Robbie Vogt wouldn’t be a nobody no matter what his position was.

And anyway, I knew that he was the Chief Scientist over at JPL, a position which he says is "exciting."

"Well," I said hesitantly, "I heard that you were the new chairman of this division and I came here to interview you for a story for the Tech." He told me that I was wrong. My spirits sagged, "Maarten Schmidt is the head of this division. I won’t be chairman until next July." My spirits rebounded and I took my coat off and started talking to him. He was sorting a bunch of papers for a site visit the next day.

"So you didn’t learn your lesson as faculty chairman last year and you’re back for more," I said. This was a not-so-subtle reference to his problems last year with Harold Brown leaving, Jenjoy LaBelle suing (among other things) the National Science Foundation to keep his place. He said for their party of scientists and I was convinced that I should take the job," he said.

Dr. Vogt has some ideas about teaching. And just about ever-**Continued on Page Two**

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**Not Worth Scaener Prices**

The Gold Mask. Tutankhamun’s funeral mask was placed directly over the bandaged face of the mummy. Photo by Al Keller

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**King Tut Comes to L.A.**

By McQ

Though Tutankhamus is just beginning to sweep the city, the Tech has already been behind the scenes and is once again ready to lay the facts on you. First and foremost, the exhibit is not worth the outrageous scapping prices one now has to pay to get in. Yes, it is quite probably the best collection of Egyptian antiquities which will tour this country for several decades to come, but the prices being kicked around for tickets these days are absolutely absurd ($25 each). The Los Angeles County Museum of Art’s idea to issue tickets in advance was laudable for avoiding the lengthy lines which have attended the exhibit in other cities, but its execution was incompetent. The tickets have fallen into the hands of skyshy and opportunists; deal with them however you wish.

The sequence in which 55 objects found in the tomb of Tutankhamun, 23 of which have never before left Egypt.

The works of art in the exhibition were chosen not only for their variety of subcate-matter, material and sheer aesthetic beauty, but also to give an accurate image of the contents of the four rooms in which they were found by British archaeologist Howard Carter. The sequence in which visitors enter the exhibit has been changed from the order in which Carter excavated them. Visitors proceed from the antechamber to the Continued on Page Four.
Equalize Credit

Have you ever had the experience of signing up for a '9 unit class, then found yourself spending ten or more hours a week on it? Or, more likely, it's not a class... taking an extra class, then found that it required nothing more than attendance, so you were getting much more credit than you deserve. Well, if you are like most people I talked to, both experiences are common.

I'm speaking of the problems of under and over united classes. According to this year's TQRF, the faculty has gone on record opposing misunited classes. However, looking back through the TQRF, it is apparent that most of the classes which are ununited in content and grading requirements, although this progress has been made (compare this year's TQRF with last year's) there are still many classes needing review. Physics labs and the Chemical Engineering Department appear to be the ununited classes. Social science classes appear to be the worst. (ununited, judging from the TQRF, despite letters to the contrary).

A committee should be formed to reevaluate these misunited classes. It would be a simple matter to go through and reunit those classes needing change. If a new course is introduced, the Undergraduate Honors and Standards Committee should do it. Admittedly there may be special circumstances for a class to be misunited, but in most cases there is no reason other than neglect, or occasioned by thinking a class in two important than it actually is, to merit extra work, despite what the institute says.

And while the committee is at it, how about making Lit 15 (journalism) a six or nine unit class (and eighteen for Tech editor). —Spencer Klein

Make Food Service Optional

There is theoretically only one rule at Caltech concerning student life, namely the honor system. Although in contrast to many schools which restrict student possession of cars, or the hours when the dormitories are open, the dormitories are open in the rooms of the other, Caltech is very liberal. There is, however, one clear rule besides the honor system: Students who live in one of the dormitories, if they are required to be on board contract, then they have religious, medical excuses, or other classes are required to be on board contract. Most students are far more interested in the house spirit benefit. Second, the food service is very profitable. But food service is important as food service food is frequently less expensive than other food. Although it is not true that food service food is frequently less expensive than other food, many students find the food service food more profitable. This makes them sick. I suspect that practically all students can make their own meals if they want to. It is absurd that only those students who go through the honor system, house system, and the food service system to be in the dormitories. The house system, house, and the food service system leads to in dining rooms or in the dormitories, while food service food makes students feel that the house is the only place to eat.

There are two justifications I have heard for this rule. First, the house members feel that the house spirit effect of the food service system is much more strong than other food service systems. In contrast to many schools where the dormitories are open in the rooms of the other, Caltech is very liberal. There is, however, one clear rule besides the honor system: Students who live in one of the dormitories, if they are required to be on board contract, then they have religious, medical excuses, or other classes are required to be on board contract. Most students are far more interested in the house spirit benefit. Second, the food service is very profitable.

The second argument is that the food service is an incentive to provide good food at a reasonable price. This is true, but there is no guarantee that the food service is doing this. In fact, the food service is often more expensive than other food service systems. There are two justifications I have heard for this rule. First, the house members feel that the house spirit effect of the food service system is much more strong than other food service systems. In contrast to many schools where the dormitories are open in the rooms of the other, Caltech is very liberal. There is, however, one clear rule besides the honor system: Students who live in one of the dormitories, if they are required to be on board contract, then they have religious, medical excuses, or other classes are required to be on board contract. Most students are far more interested in the house spirit benefit. Second, the food service is very profitable.

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All it will do is increase costs and create confusion, and drive us out of the Technosphere. American Airlines has said the same thing about deregulation of airlines. It is not enough that the airline industry indicates that airlines can indeed find ways to cut costs, without disrupting service or going out of business. Just as airlines are beginning to find ways to reduce costs, food service will find ways of improving food, if students are given a choice of whether or not being on board contract.

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Eliminate Tracks

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Troll Music
The following companies will be sponsoring the program and encouraging you to bring your problem with a real live discussion presentation on the question, "Where Have All the Black Holes Gone?"

ASCIT Budget
The ASCIT BOD budget meeting for the year 1978-79 will be held Monday, March 6 at 7:30 pm in Winnett Lounge. Anyone who wants to be included in this year's budget or who just wants to add to the confusion should attend.

Where Have All the Black Holes Gone?
Next Wednesday, March 8, at 12 noon in Chroboun 1, Dr. Bob D. Blanchard, Assistant Professor of Theoretical Physics, will give an UPDATE on discussion presentation on the question, "Where have all the black holes gone?" The Caltech Y is sponsoring the program and encourages you to bring your lunch and discuss this intriguing problem with a real live professor.

Get Some Money
The financial aid deadline for the 1978-79 academic year is Monday, April 17. Pick up your financial aid application in the Financial Aid Office, 208 Dubney. If you have any questions regarding the form, please do not hesitate to see either Ursula Hyman-Kelly or Sandra Boyd.

More Letters
Letters must still pay their $36 deposits for their jackets before the jackets will be ordered. Also, second year lettermen who ordered jackets as first year lettermen are now eligible for a 50% refund. Consult the ASCIT Athlete in 142 Page.

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Continued from Page One:

annex, then through the treasury and finally to the burial chamber itself. Photographs of Tutankhamun's sarcophagus have been placed throughout the room to recall the painstaking and expert work required to remove the thousands of priceless and fragile treasures from the chambers, though some of them seem a bit pointless. The photomurals have been enhanced by quotes from Carter's diary which are just long enough to arouse interest without answering questions. They are also poorly lit along the wall, making several of them difficult to read.

Tut Alive

Tutankhamun reigned during the 18th Dynasty (1550–1450 B.C.) of the one of the most glorious periods in Egypt's history. Centuries before, in 3100 B.C., Egypt had become the first large state in history to be unified under a single ruler. The Sphinx and the Great Pyramid of Giza (ca. 2500 B.C.) were already ancient monuments by the beginning of the 18th Dynasty, a period of tremendous expansion. Early in the dynasty, the great Pharaoh Tutankhamon (1350–1334 B.C.) established an empire in Asia, thus involving Egypt in close political and commercial contacts with foreign cultures, as well as fostering innovations in art and religion. By the time of Amenophis III (1386–1349 B.C.), Egypt was enjoying the full fruits of its empire. Tributes were flowing in from occupied countries and peace was made with the country's major enemy, Mitanni in Syria. Egypt's prosperity was evidenced by the construction of huge temples, colossal statues of the pharaohs, and lavishly decorated tombs in the Theban necropolis.

Tutankhamun's life (ca. 1342–1325 B.C.) was short and tragic. This period in Egyptian history was not only one of unequalled material riches, but also a period of unprecedented internal upheaval. Akhenaton's marriage to Princess Nefertiti had been fanatically devoted to a new faith, the worship of the sun god. Akhenaton and Nefertiti were already unchaste and demoralized among the conservative devout Egyptian people. Nefertiti is thought to have been the new pharaoh's advisor—his chief vizier. Ay, his commander in chief Hazorah, who largely governed the country, had a return to the old order was necessary for the country to recover from the chaos into which it had lapsed.

Three years into his reign Tutankhamun's court abandoned Amarna and his beliefs, returned the capital to Thebes, reopened the temple and restored the country to worship of the traditional gods Amun in particular. According to the Atonist names of the couple were changed to Tutankhamun and Ankhebaset, attuned to Tutankhamun and Ankhebaset, attuned to Tutankhamun and Ankhebaset.

Tutankhamun died suddenly in 1325 B.C., at about 18 years of age, of unknown causes. An autopsy recently performed on the mummy suggested he not have been bludgeoned to death. He was buried in a small tomb in the Valley of the Kings that he probably been prepared for a vizier. Ay.

The Tomb

Tutankhamun hidden by its steep location in the floor of the valley, covered by mud and rubbles from the construction of a royal tomb nearby. Tutankhamun's tomb escaped attention, and ultimately was subject to wholesale plundering suffered by the other royal tombs in the Valley of the Kings. While they were being ransacked by centuries of tomb robbers, Tutankhamun's mummy was undisturbed inside its sarcophagus. Most of its famous treasures and personal possessions have survived virtually untouched, despite two abortive attempts to rob the tomb shortly after the burial.

Considered by some as the most spectacular archaeological discovery of the twentieth century, Tutankhamun's tomb was carved in the softly glowing rock of the valley walls. The tomb of Tutankhamun, Carter had long been convinced that Tutankhamun was buried in the Valley of the Kings, with the plundered tombs of other pharaohs of the Eighteenth Dynasty. No trace of the king's tomb. Carter convinced his sponsor to support a final two-month dig in a previously unexplored area in the valley, thus finally bringing the tomb to light. Tutankhamun's tomb was opened in 1922, and the discovery promptly made the world famous Tutankhamun.
Un慷慨地，Carnarvon，the darkness. The lighting is to the point of dimness while the objects are exhibited under spotlights, each, to its own glass case. The rooms are only painted in black and tan with matching dark rugs. Once one's eyes have adjusted, however, there is a feast to behold. The wall on your left is put away through all the rooms, giving a clear view from the beginning of the exhibition to the end. All that will be in sight, though, are crowds of people. The first room, representing the mummy chamber, contains both some of the best and worst of the objects. I found the openwork buckle most interesting. It is made of sheet gold tinted red and portrays Tutankhamun in the traditional role of a warrior returning from battle. In front of his bust are shelled Asiatic and Nubian captives while the culture and mummified cobra goddesses of Upper and Lower Egypt protect the king.

Also of note in the first chamber is the floral unguent vase; directly to your left after entering. The exploding alabaster Tutankhamun's face, covered in the same material, is an extraordinary bit of stone cutting. The vase and bust are formed of only two blocks of alabaster with the pyramids of Lower Egypt and the lotus of Upper Egypt linked around the neck to symbolize the unification of the two lands. The unguent it contained was probably an ointment of either gum resins or oil fats used as perfumes and as religious ritual offerings.

The second room contains the devastating Lion Jar, which I would list as one of the outstanding pieces. The lion bears the cartouches of Tutankhamun and may symbolize the king; the heads of Asians and Africans projecting from the base symbolize the conquest of foreign lands. The whole jar has an air of coolness despite the red tones and, as usual with these items, one shouldn't miss the tear for it seems the lion bears spiral glaxies on its shoulder blades.

A favorite of many in the third room is the goddess Selket status. She is one of four goddesses who stand outside the gilded wooden shrine that housed the chest containing Tutankhamun's mumified internal organs, her outstretched arm spreading protection. But what I think the third room could be represented both as a scarab and as a falcon; here he is symbolized by a chalcacony scarab that serves as the body of a falcon with outstretched wings. It has the forelegs of a scarab and, at the back, falcon's legs. The piece is made of gold and inset with semi-precious stones. Last and most magnificent is the funerary mask. Made of beaten and furnished gold, it was placed directly over the hardened face of the mummy. It is lifelike and appears to be a likeness of the king, verifiable from the mummy itself. The eyebrows and eyelids are made of lapis lazuli; the eyes are of quartz and obsidian; the strips in the royal headdress are of blue glass, as is the l'ailay of the plated false.
The Other Half of Your New ASCIT Heroes
Beckman Mall Hosts Festival

The Court of Man will serve as the exhibition grounds for the seventh annual Art Festival during the first weekend in March, for continuous entertainment, displays, performances, and good food, all being offered by the Pasadena Arts Council. Admission is free. For further information, call 793-7043.

There will be exhibits in Baxter Art Gallery, drama, films, and music in Beckman and Ramanos Auditoriums and in Doheny lounge.

This annual event is sponsored by the Pasadena Arts Council and is called "C.L.E.A.R. Day"—Creative Learning Exchange and Recreational Day.

This weekend, the Modern Quartet (MFQ) is appearing in the midst of its own insensitivity—its own aerial efforts. The peripatetic "mood music" swelled all the wrong places and, by soaring in the midst of Iago's suicide, succeeded in blurring the tragedy of the Moor's soap opera. But perhaps this fates in comparison with Orson Welles's masterwork was remarkably incompetent through most of the way, but she played the death scene as endocrinologically as a dancer who hasn't made the cut for the clubhouse. The rest were perceptibly labored, widely populated and the singing of the front-row-center well into the production indeed remarkable insensitivity—part of all concerned.

If it was truly the first shortest pause in the "overture," it might as well have been a road race for all the national involvement. The high point of the whole thing was Marc Weihrauch as Cassio. He gave an even performance and successfully negotiated the dangers of being a love interest in several battles. Kirk Wolftung, on the other hand, gave us a Roderigo who was an allegory of his own failure to mean; but this was execrable. The rest of the production was stiffly competent; to the point of mediocrity. And that was it. As Othello charges the Venetian nobles at the end:

When you shall these unbleak deeds relate, Speak of me as I am, nothing extenuate.

—Michael Kurilla

Othello Victimized

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Dutch Trio to Perform

An unusual concert of baroque chambers, early music recorders, baroque cello, and continuo, performed by the Dutch ensemble Quatuor Amsterdam, will be presented by the Coleman Chamber Music Association, on Sunday afternoon, March 5, at 3:00 pm in Little Auditorium. The group consists of four young musicians specializing in 17th and 18th century music. The two recorder players, Kees Boeije and Wouter van Heuwe, graduated from the Hague Conservatory, having studied with Frans Brüggen, world famous recorder player. The harpsichordist, Ben Asperen, and the baroque cellist Wout Kappe, are graduates of the Amsterdam Conservatory. The young artists founded the ensemble in 1968 while still students. They have made numerous recordings and have performed throughout Europe to great critical acclaim, not only with this group, but as soloists and with other ensembles. The performance for the March 5 concert at Beckman Auditorium will include works by Purcell, Bach, Marin Marais and John Hilton. Tickets are available at Ticketmaster and at the Caltech Ticket Office, 332 South Michigan Avenue in Pasadena. For further information call 793-7043.

Pianist to Perform

Continued from Page Seven

orchestra will also play Ravell's 'Revelation' and Mendelssohn's 'Sonata No. 5. For information, call 972-7211.

Mezzo-soprano Jan DeCurtin will be accompanied by Kais and Philip West who will play oboe, English horn and alto in this recital. UCLA's New Conservatory Series on Sunday, March 5 at 8 pm in Schoenberg Auditorium.

Five Schubert songs: "Der Schneewittchen," "Standchen," "Die Mauer und Meinacht," "Die junge Nonne," and "Bei dir" will open the evening's program. Wernich's four "Songs of Remembrance" will follow, followed by the "Sonata for Oboe and Piano" (Poulenc), "Fetes Galantes," (Haydn) and the 18th century "Las Cantigas de Santa Maria" from the Court of Castille, "The Little Bird," "The Little Flower," "The Serenade." On Monday, March 6, at 8 pm in Throop Unitarian Church, the East West Players will give one performance only of their small-scale musical play, "Onward in America." In it, some of today's Asian Americans celebrate in song and story, ten decades of the past, along with some future aspirations.

For information call 793-7043.

Harvey Pilott, who has won world-wide acclaim for his talents with the tenor phalange. A recital in Ramo Auditorium on Tuesday, March 7 at 8 pm. Pilott's program will include an unusual contrast in styles with music by Bach, Reger, and Messiaen. George Riehman and Bob Riehman will accompany the tenor phalange. George Riehman and Bob Riehman will accompany the

Beavers Still Winning

By Grant T. Yokus

The Caltech packsters handed Pierce L.A. an academic area office, with a 71-74 win over the Beavers in the first period. The spirited Techers are now riding a 6-6 game-winning streak. They are gaining, their opponents don't know how to handle it. What's more, the fans are coming to the Caltech

Fiorillo

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Fiorillo returns to America and gives the Trio the key to the city of Trieste. Marie Fischer (Susan Erikson), tearfullyacd the last word with Fiorillo and then, is sad because she has loved Fiorillo all along. Fiorillo then runs for Mayor of New York against Jimmy Walker. Walker's campaign includes girl friends who perform for the party faithful and sing 'Jimmy Gimme'. Fiorillo loses the election by alienating voters and ignoring the advice of the Republican establishment.

The depression strikes, and Fiorillo is persuaded to run again. During the campaign they date, and Fiorillo proposes to Marie, who happily accepts, on the wing of his election victory. A few problems are detracted somewhat from the show, which was otherwise excellent. Several players had mild illnesses and could not sing as loudly as they otherwise could have. The

Good for community relations. All the evening performances sold out and the Saturdays were sold out on the floor seats. This is testimony to the reputation The ASCIT musicals have earned in the past. People from Pasadena come to its musical and they discover the Caltech students multi-faceted people with variety of talents and interests both academic and nonacademic.

DISCOVERY... 

...discovering yourself and others in your neighborhood group discussions, followed by dancing, singing, and socializing.

Every Friday night at 7:30
Throup Unitarian Universalist Church, 301 S. Los Robles Ave., Pasadena

795-8625