Neil Brandt
Named Finalist in
A.F.S. Competition

Neil Brandt has been named a
finalist in the 1992 Annual Apker
Award Competition of the Ameri­
can Physical Society. Brandt re­
ceived this designation for his work
with Professor Tony Readhead and
Senior Research Associate Charles
Lawrence entitled "Work Towards a
Measurement of Cosmic Micro­
wave Background Anisotropy."
The Apker Award of the Ameri­
can Physical Society is presented
annually to an undergraduate with
an excellent academic record who
has "demonstrated exceptional po­
tential for scientific research by
an original contribution to physics."
The winner receives $3000.00. All
four finalists were asked to give
(expenses paid) invited talks at the
Spring Meeting of APS in Wash­
ington, D.C.
The purpose of the Apker Award
is to recognize outstanding
achievement in physics by under­
graduate students and thereby pro­
vide encouragement to young
physicists who have demonstrated
great potential for future scientific
accomplishment.
The award was established as a
memorial to Dr. LeRoy Apker, who
had a distinguished career as a solid
state physicist at General Electric,
through an endowment donated by
Jean Dickey Apker to The Ameri­
can Physical Society.

In brief, Brandt's research is di­
rected towards a measurement of
anisotropy in the 3° cosmic black­
body radiation on angular scales
much smaller than those resolved in
the recently announced COBE re­
sults.

He has made significant observa­
tions with a new microwave re­
ciever on the 5.5 meter Owens
Valley telescope, and has carried
out a very useful study concerning
the optimal operating parameters
and ability to separate signal from
noise for a sensitive multi-frequency
radio interferometer that Caltech
plans to build.

Eventual detection of anisotro­
pies in 3° blackbody radiation at the
angular scales considered by Brandt
would provide information on
density fluctuations in early clus­
ters of protogalaxies, and would be
useful in tandem with the larger­
scale COBE results in describing
the spectrum of fluctuations.

Caltech's Physics Undergradu­
ate Committee (Ricardo Gomez, Chair) selects Caltech's Apker nomi­
nees each spring after consid­
ering the senior theses presented by
our physics majors, plus any other
outstanding physics research the
committee may be aware of by an
undergraduate. The top four can­
didates from around the country are
continued on page 2

The New Year Brings a New Cycle of ASCIT Elections

Ewald Hauffmeister

A new year has begun and with
this new year have come a new
President and Congress. At Caltech,
the new year brings it with a new
term and, you guessed it, ASCIT
elections. Yes, nothing lasts for­
ever, and sadly enough, the terms of
the current Board of Directors are
about to expire. With this sadness,
though, comes opportunity: oppor­
tunity for ambitious, energetic indi­
viduals who desire to serve on the
Board of Directors of our favorite
corporation, affectionately known as
ASCIT. Think of it: power, pres­
tige and popularity all for the price
of only a few grade points.

Seriously, though, ASCIT elec­
tions are about to begin and, as
Election Chairman, my job is to
make sure they run smoothly. I be­
lieve that in order for this to happen,
it is necessary that everyone un­
derstand the procedure from the out­
set. Please read this even if you are not
a freshman and you think you know
what is going on. There have been
a few changes in the last couple of
years and it is vital that everyone
understand the rules.

At 8 AM on Wednesday, January
13, nominations will open for AS­
CIT President, ASCIT Vice-Presi­
dent, and Editor(s) of the California
Tech.

The exact duties of all officers is
described in the Bylaws in the lit­
tle kit. Basically, though, the President,
who cannot be a freshman, presides
over all ASCIT Board meetings and
serves as the official representative
of ASCIT. The Vice-President, who
also cannot be a freshman, is chair­
man of the BOC (Board of Control)
and, during absences of the Presi­
dent, assumes the duties of that of­
fice. The many responsibilities of
the Editor of the California Tech are
delineated in Article 14 of the
Bylaws, but note that a group of
people can hold this office.

Nominations for these offices
must be submitted to the current
ASCIT secretary, Korhan Gürkan:
Box #565, in writing, and be signed
by the nominee. Nominations close
at 5 PM on Tuesday, January 19.

On Monday, January 25, there
will be an election for these three
offices. In this election, one can
vote for a nominee, write in the
name of any qualified person, or
demand "No". Note that if "No" wins

Important Election Dates

Jan. 13: Nominations open for AS­
CIT President, ASCIT Vice-President,
and Editor(s) of the California Tech open.

Jan. 19: Nominations close for Pres., VP, and
Editor(s).

Jan. 25: Initial election for Pres., VP, and
Editor(s).

Jan 27: Nominations for remaining ASCIT offices
open.

Jan 29: Runoff election for Pres., VP, and
Editor(s).

Feb 2: Nominations close for remaining ASCIT
offices.

Feb 8: Initial election for remaining offices.

Feb 12: Runoff election for remaining offices.

Letters

Page 2

Bridge w/o

Sam

Page 4

Comics

Page 6
The Tech will meet in the Coffeehouse at 12:15 p.m. today, and every Friday come and explore the opportunities. Free Pizza!

LAEMMILE THEATRES

ESQUIRE
2620 E. Colorado Blvd. (818) 793-6409
Miranda Richardson
The Crying Game
Daily 1:00, 7:00, 9:30 p.m.
Sunday 2:00, 7:00 p.m.
Stanley Bergman Theatre 2:15 p.m.

COLORADO
2588 E. Colorado Blvd. (818) 796-9794
Catherine Deneuve
INDOCHINE
Daily 7:00, 8:30 p.m.
Stevie Ray Vaughan Theater 2:00 p.m.

FRIDAY NIGHT ASCET MOVIE

THE CALIFORNIA TECH
Volume XCIV • Number 11
January 8, 1993

EDITOR
Rajesh "Q" Bilimoria
Michael Oehrle
Christopher Orth

EDITORS-IN-CHIEF
Aarup Stahla

WRITERS
Christopher Uhlenbeck
Jeff Goldsmith
Khiran Desai-Khan
Brendan Weber

BUSINESS MANAGER
Khirendra Desai-Khan

CIRCULATION
John Grade

Published weekly except during examination and vacation periods by Associated Students of the California Institute of Technology. The opinions expressed herein are strictly those of the writers. Letters and announcements are welcome. All contributions should include the author’s name and phone number and the deadline for publication. Authors are requested to send three copies of their letters to the editor. The editor reserves the right to edit and abbreviate all submissions for reasons of space or style or for any other reason. The California Tech is distributed free. Issuers will be held harmless upon receipt of this notice. No responsibility is assumed for unsolicited manuscripts or materials.

Cover photo: Bob Gasser. Published in accordance with the Los Angeles Times contract.

EDITORIAL

Ask Not . . .

Rajesh "Q" Bilimoria

Check out that front page, kids. Nominations for the major ASCET offices go up and down within the next eleven days. My, my, un spoak that ambition and nominate yourself for something.

The California Tech is the most liberal of your place in the "Caltech Community." I’ll be the first to admit that there are a great number of issues, academic and social, that need to be dealt with in order to increase the quality of student life here. And I’ll admit it. I do. I, along with a lot of other people, do. But I did it out of self-interest. But I did it with what I could. I always hear a lot about how horrible life is here, but how many people actually take action to change that?

Now it’s your turn.

I can only tell you about being Editor of the Tech, since that’s the office I hold. Here’s what I think of things.

As I said, and I decide that we think we are more qualified than freshmen to edit The Tech, I recruit Chris Orth as our third. We make, oh, I don’t know, freshmen look like madmen. We win. Then we have to perform. In this generation, have we not worked hard to be successful at what we have attempted to do?

Then it was time to think of the future of The Tech, and we made a decision to add more photographs. We did not have a very good year. We have made a decision to do things better. We have suffered a lot of bad luck, and we think we have become a lot more than that. We have, we have, we have.

The Tech, to add more photographs (we did), to improve sports coverage (we did), to improve the entertainment section (we tried, with limited success).

I remember reading one of the previous editor’s editorials that was published about a year ago. In it, he described his and his colleagues’ goals and ambitions for The Tech and how they had and had not been met. We, too, had great vision. We had made a decision to make The Tech a better newspaper. Without the high goals we set, we would have made as much progress as we have. Following our election, we quickly learned that we had become much more than that. We became writers, we became photographers, we even sold a few ads. Editors — in the loosest, most liberal sense of the word. Indeed, initially, I don’t think we even realized how much the newspaper didn’t exactly turn out the way we planned it. It’s been an amazing how quickly twenty hours of my week slipped by those first few weeks.

As time went on, we became more efficient, and we were able to spend less time on The Tech.

But for all the hours and grades that I sacrificed for The Tech, I think it’s been worthwhile. I believe we have made The Tech a better newspaper. Our biggest mistake, was not realizing, before we ran, that there was effectively no staff. Our predecessors made The Tech better than we when they took office. We’ve taken it higher; we recruited a few writers and a photographer and we’ve improved the look of the paper. Gradually, The Tech is improving.

What can you expect? If you run, and are elected to this office, what’s the reward? Here’s what you’ll receive: some pretty cool computers, a lot of wax, and a bunch of junk mail. But most importantly, you get a staff. The staff is small, but it does exist. Primarily composed of freshmen, I believe that we have been fortunate to have the writers and photographers we have. You will also get several weeks to reflect. You will take office at the beginning of third term.

You may wonder why I am urging people to do something that consumes so much time and doesn’t help your grades at all. Because, although we are all here to receive an education, it’s not all that matters here. Your social education, your sense of fulfillment, and your other experiences are important.

I hope that some very qualified individuals choose to run for this office. And I hope they have the good fortune to be elected. And even if you don’t want to commit to running for office, think about what you think is important for your students. Whether you get involved with the Y, student government, or The Tech, you will make a positive difference. The Tech always needs new staff members. If you’re interested in running for Editor or just working on the staff, please talk to us. Our next meeting is today at 12:15 in the Coffeehouse. You can also feel free to contact me in Ricketts. Act now. Because if you don’t improve your environment, be it your newspaper or your student leadership, no one will do it for you.

---

Friday Night ASCET Movie

"This Is" to listen to that sultry, restless, dead again.
Baxter Lecture Hall at 7:30 and 10:00.
$1.50 and $2.00 non-ASCET.

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PASSENGER FISH

THE CALIFORNIA TECH
Volume XCIV • Number 11
January 8, 1993

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ORE INTER BEAT EDITOR
Stephen Hefte

PHOTOGRAPHER
Aarup Stahla

WRITERS
Christopher Uhlenbeck
Jeff Goldsmith
Khiran Desai-Khan
Brendan Weber

BUSINESS MANAGER
Khirendra Desai-Khan

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12-4 (morning) A staff person parked his car in front of Steele House for the day. While he was away, some­one broke out the rear window of the vehicle to gain access to it. The stereo/tape player was stolen. ($300)

12-4 (noon) A car parked on Arden Road had one of its windows smashed. Nothing appeared to be stolen. ($200)

12-4 (afternoon) A car parked at the Tournament Park lot had one of its windows broken. A stereo/tape player was stolen. ($450)

12-5 (evening) A car parked at the South Luca lot had its passenger window removed. A stereo/tape player was stolen. ($250)

12-7 (morning) A staff person’s car was said to be on fire in the Chester lot. It is reported that the voltage regulator malfunctioned causing an electrical fire. The fire department cut the electrical power which stopped the fire. ($500)

12-7 (evening) A transient, age 65, was found sleeping in a garage on Hill Avenue. He was advised by Security that he was trespassing on private property. He left without incident.

12-7 (daytime) A vehicle parked at the Wilson parking structure had its driver’s side window smashed. Since nothing was stolen, it is suspected that the car alarm frightened off the perpetrator. ($300)

12-8 (afternoon) A suspicious person was reported attempt­ ing to sell a calculator on Beekman Hall, then leaving to scope around Kerckhoff, and then later going to the seventh floor of Millikan library where he set to cutting out paper hearts with a pair scissors he recovered from a desk. A search of the area was made by Security, but the suspect could not be located.

12-8 (afternoon) Another suspicious person was observed sitting at a bench on the south side of Credlin Lab. He asked the person next to him if he could smoke a cigarette. She stated that she had no objection. The suspect then proceeded to reach into a butt can, remove a partially smoked cigarette someone had discarded and light it.

12-10 to 12-13 A bike left in Rickets was stolen. Its chain was cut. ($150)

12-11 (afternoon) A middle aged man was found babbling loudly to himself in a Physics building. When questioned he stated that he was a Psychologist looking for a job.

12-11 to 12-12 A flannel jacket stolen from a locked office in Geology. It was left on the back of a chair. ($60)

12-12 to 1-1 A bike left in Danby had its front and back wheels stolen. ($200)

12-12 to 12-13 (night) A Trek bike left in Danby had its front and back wheels stolen. ($200)

12-12 to 1-1 A bike left in Danby was stolen. ($100)

12-12 (1:45pm) The A1h tunnel door alarm was responded to. The door was apparently tilted and attempts were made to pry it open. A hatch to the outside was found with its chain cut. No suspects were found.

12-9 to 12-14 A CD player was stolen from Danby Hall. ($200)

12-14 (afternoon) A car stereo was stolen from the Tourna­ment Lot. ($100)

12-18 (1:20pm) A CD-ROM drive was stolen from Booth Computer Room. The room was occupied by Pac Bell and Caltech personnel. ($553)

12-21 (night) A bike left at Catalina was stolen. Its chain and lock were left intact. ($50)

12-22 to 12-28 A CD-ROM drive was stolen from Jorgensen IBM-PC lab. The security cable was cut. ($600)

12-23 (evening) A briefcase left for a moment on San Pasqual Walk walked away. ($100)

12-28 (10pm) A teenager was found soliciting money on the streets near Catalina. He was wearing a white shirt with eyesoles cut into it.

12-30 (1pm) A leaf blower momentary set down near the A1h was stolen. ($400)

12-31 (12noon) After filtering P-32, a Biologist discovered that his right hand was emitting 500 counts per minute. After washing, the count dropped to 45 per minute.

1-2 (early morning) A 6” diameter hole was cut in the carwalk door of North Mudd allowing entrance. No suspects were found.

1-2 (afternoon) A bike left outside of Booth for two hours was stolen. ($100)

1-2 (night) An attempt was made to steal a car parked on San Pasqual.

1-5 (2-5pm) A backpack left momentarily in Millikan was stolen. ($120)

1-6 (daytime) A rear window was broken out and a stereo stolen from a vehicle parked at the Wilson parking structure. ($300)

Four Week Total: $5033

IF ORACLE IS JUST A DATABASE COMPANY...

THEN THIS IS JUST A WATCH.

It’s time we set the record straight. Oracle created the world’s first commercially available rela­tional database. Just as Seiko created the world’s first quartz watch without a battery.* Both remarkable feats. But our technology didn’t stop with database software, any more than theirs stopped with telling the time.

Today, Oracle provides total systems solutions through database, tools, applications, and services. Our products run on more than 100 computer platforms and are currently offered in 92 countries around the world. Imagine applying your skills in advanced networking, CASE, appli­cation development, office automation, development tools, multimedia, massively parallel techn­ology, and more.

So when you’re ready to transform your education into an exciting career, don’t just settle for any software company—choose Oracle. We are interested in individuals with technical degrees for positions in Software Development, Technical Support, Consulting and Product Management.

Send your resume to Larry Lynn or Lindsay Quiintero at Oracle Corporation, 590 Oracle Parkway, Bldg 39001, Redwood Shores, CA 94065, Phone (415) 586-5906, Fax (415) 586-1073, E-mail blynn@us.oracle.com. Oracle Corporation is an equal opportunity employer.

Oracle will be On Campus
January 12-14, 1993
Computer Science Office for details.

*Depicted, Seiko Sport Tech Advanced Flight Computer—the world’s first datachronograph that records elapsed time up to 35 days, 25 hours 20 minutes, 59 seconds. Official time and all indications relationship between height/velocity and period of revolution of a passing satellite.
Khorram Dastgir

My Career In High Finance

Returning to my lodgings immediately, I tore off the tie and shirt. Put on my Magellan t-shirt, denim jeans, and left immediately to attend—what else?—AMA '95 reception session. Thus ended, dear reader, my meteoric, short-lived stay in the rarified air of high finance.

It started with the fantasy sheet put out by the on-campus dream center. I want to irrigate the desert. I hope to continue the research...and if I don’t do it? I play a low diamond to the Queen. LHO wins the fire and fires the club. That is bad...what about the trick? If I don’t win it, I will continue the suit. If she continues with a club, I might be OK, but she will probably switch to a heart, which will mess things up. What can I do about this? Ah! I have the answer. I play the Ten under LHO’s Queen and let her hold the trick, discarding a club from hand. She looks at this suspiciously, as well she might, but shrugs and continues spades. After all, it sets up tricks.

On the run of the diamonds, LHO shows up with four (1) and RHO high-lows in hearts. On the fifth diamond, RHO throws a spade and on the sixth the Queen. When I cash the J, she squirms a minute and plays a club. Since RHO has the Q and LHO has the A, I can claim with three good clubs in hand. Making five for a very good matchpoint score. It would have been much easier if I had just hooked the spade Ten at trick one. Heck, I could have made six.

Even though the defender couldn’t predict the squeeze so easily in this hand, my bidding was not very revealing, she should get this one right via a simple logical inference. Obviously, she would not continue spades if I did not play the Ten. Therefore, I must want her to continue spades for some reason. If it is good for me, it is bad for her, so she must do something else. A little thought would have led to the heart shift.

The Caltech Bridge Club meets every Monday night at 7:15 in Winnett Lounge. Everyone is welcome; call Jeff Goldsmith at x2818 for details.
I made a big sandwich today and sat and read the newspaper while I ate.

Mr. Peterson jumped up on the table and walked across the newspaper so I set her back on the floor.

Today I saw a guy in an old army coat walk into an ice cream store.

He was unshaven and looked like he was shaking out of nervousness or something.

I was recognizing some books on my bookshelf today.

I made stacks on the floor and tried to put books on the shelf in some kind of order.

I told Ruth that Mr. Peterson likes to eat funny things sometimes.

I made a big sandwich today and sat and read the newspaper while I ate.

Ruth offered me to Mr. Peterson and she started to lick it.

She ran into the other room and I kept reading and eating.

Then she started swinging at the top of her voice and wouldn't stop.

But I figured the chance of that happening was pretty slim.

I was recognizing some books on my bookshelf today.

I made stacks on the floor and tried to put books on the shelf in some kind of order.

It took me a long time because I kept stopping to read things.

Today Ruth came over and we ate some crackers that she brought.

Ruth laughed.
In September 1950 Peter John Kousakis opened Pete's Grandburger. For 40 years this tiny, yet mighty establishment located at Wilshire & Bixel, generated one of the most successful fast food clienteles in the downtown Los Angeles area.

Although Pete decided in 1990 to stop and hang up his apron, don’t despair! The tradition lives on.

Our next president wants to be close friends with every American. Said the transition team interviewer.

You are applying to be the guardian of that perception.

In September 1950 Peter John Kousakis opened Pete’s GRANDBURGER. For 40 years this tiny, yet mighty establishment located at Wilshire & Bixel, generated one of the most successful fast food clienteles in the downtown Los Angeles area.

Although Pete decided in 1990 to stop and hang up his apron, don’t despair! The tradition lives on.

Pete’s youngest son, James will be re-opening the family business in January 1993.

Training with his father since the ripe old age of 8, James is committed to continuing the fine Kousakis tradition of producing the GREATEST HAMBURGER in Southern California and he’s choosing Pasadena as his headquarters.

Come, experience what thousands and thousands in Los Angeles have done for 40 years. Pete’s GRANDBURGER is back in the City of The Roses.

Petra’s Grandburgers Offers
10% Discount with Caltech ID

PETE'S GRANDBURGER
526 S. Lake Street
Pasadena

PETE’S GRANDBURGER is one block north of California Street on the west side of Lake.
Caltech: Division III’s Best Defense

In case you haven’t noticed, and judging by the attendance, you haven’t, the Beaver basketball team has the best scoring defense in the nation, allowing only 43.8 points per game as of Christmas Break. They are over seven points ahead of their closest competitor, Ohio North (51.3). Caltech also leads Division III in rebounding, pulling down 19 more boards than their opponents. With numbers like these, it’s not surprising that the team also outscores their opponents by 19, good enough to tie for 11th.

Along with team honors, this 7-1 Beaver squad has an individual kudos to hand out, George Papa is 14th in Division III in scoring, and 12th in rebounding. Papa also leads all SCIAC players in scoring, rebounding, and blocked shots. Papa

Bryce H. Blanion, President

Electon ‘93

In this election, the Ex-Com will appoint someone to hold the office, and there will not be another election for the office of alll eligible voters is presented to the Board of Directors. If anyone receives more than 50% of the votes in this initial election, they win the position and there is no final election for that office. In the case that no one receives a majority of votes in the initial election and “No” doesn’t win, the top two candidates (and the third if he/she receives at least 80% as many votes as the second place candidate) will be in a runoff election to be held Friday, January 29. The procedure in this final election is quite different from the procedure of the initial election. In the final election, a vote can only be cast for one of the candidates appearing on the ballot. No write-in or “No” votes are allowed. To vote, circle the most preferred candidate and cross out the least preferred candidate. If a candidate gets a majority of preferred votes in the final election, he/she wins. If no one gets a majority of preferred votes, the winner is the person with the highest number of most preferred votes minus number of least preferred votes. If there is still a tie, the winner is the person who had a plurality in the initial election.

This election procedure is repeated for the other remaining offices. Keep watching the Caltech Ex-Com for written statements by the candidates, other election announcements, and results.

I would like to encourage anyone interested in any of these offices to talk to the people who hold them now. You can find out what offices are in your little T. Finally, I would like to encourage everyone to vote. This is not a national election, where your vote is one among 100 million. It’s not even a large school. When there are only 800 people, every vote makes a difference. If you have any questions contact me, Ewald Hauflmeier, Election Chairman.
Buy Caltech cards and save, save, save!

Wednesday's Women's Club Glee Tryouts - The Young Women's Club will hold tryouts for their Glee Club. Tryouts will be held on Monday, January 11, at 5 p.m. in SAC 104. The Glee Club will present a musical featuring music by one of America's foremost composers, Dvořák. Dr. Konigsberg, music director of the Caltech Symphony. Dr. Pinkham will be on campus to conduct the choir for both the Women's Club Glee. If interested in singing, please contact the Women's Club Glee contact Monica Halvorsen at x620.

Work for the MOSH - The Master of Stud­
dents Housing (MOSH) is looking for married workers to assist in the areas of the Master of Students Housing. Call x911 for more details. FROSH - this is your big chance!

Guitar Classes - Guitar Classes for the winter semester will be announced on Tuesday, January 19 in Room 1 of the SAC as follows: Beginner 5:30-6:30 PM, Intermediate 6:30-8:30 PM, and Advanced 8:30-10:30 PM. Call x4652. CM and Flamenco repertoire are explored but techniques transfer to other styles of guitar. The Beginner Class is for those with no experience. Lessons are free to Caltech students and other members of the Caltech Community, upon permitting the instructor.

Private Instruction on any level can also be arranged. The instructor, Classical Guitarist Darryl Danning has an international background in performance, composition and teaching, and can be reached at (213) 465-0861.

Caltech Bicycle Club Meeting - Wednesday, January 13, 8 p.m. to 9 p.m., in Winton Library 116. First meeting of the year. Events for the Caltech bicycle club, the Tech-ogonists, will include a 100 mile ride, road rules, for all skill levels, from novice to advanced. The first collegiate men's bike club is February 6 in San Diego. For more information, call Nancy Macmillan at x8360. For information contact Kenton at x5168. or send email to cbc@caltech.edu and join our mailing list.

Workshop on Thursday, January 21, with the Ama­

tothe American Board of Aircraft Accident Investigation. The American Board of Aircraft Accident Investigation is dedicated to education and training in the field of aircraft accident investigation. The workshop will be held at (213) 310-0225.

Zin, 106, S. - History Thought and Culture - 106, S. is a discussion group for faculty, it's representation have been a focus of interest in Southern California. This group, many of these scholars, essay on these see, an analysis of the body, especially with regard to gender and race. The group is to address the cultural and medical crisis of AIDS. For further information contact Prof. Weiler's assistant,销ngr. Weiler's assistant,销ngr.

Women's Lunch - Join the Women's Club for a

serving luncheon at their annual meeting. The event will be held on Thursday, January 28, at 5:30 p.m. in the Bay Lounge. The luncheon is open to all members of the club. The cost is $5.00.

The Caltech Student Investment Fund (CSIF) - This is an organization that is open to all Caltech students. The organization was formed to create a professional environment for students to gain hands-on experience in the investment industry. The club provides a unique opportunity for students to learn about the investment profession and develop skills that are essential for success in the finance industry.

All members interested in facilitating start-up group on CSIF campus. Please contact Michael A. Faculty Contact Center at x385-2883.

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Moments Monday - The right choice and

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