Work In Progress In South House Basement

Yudelman Optimistic About Food Supply
World Has Surplus Despite Poverty and Unequal Distribution

by Kevin Nelson

In his talk at Caltech on Tuesday, Dr. Montague Yudelman, a former director of the World Bank, presented a relatively optimistic picture of the world food supply situation. Though he acknowledge that serious problems still remain, he said that, due mainly to improvements in the technology and agricultural practices, we have successfully avoided the situation of worsening scarcity feared in the 1970's and have achieved an adequate global food surplus. As he sees it, the adequacy of the overall world food supply should no longer be our major concern; rather, our focus must now be shifted to such problems as distribution and poverty.

Forty years ago, when the countries of the Third World were beginning to gain their independence, the sufficiency of agricultural production was not generally considered a major concern, said Dr. Yudelman. It was then thought that there was so much land and so many workers in the tropics that production there would be enough even for much larger populations. Instead, the main emphasis was on industrial development. Unfortunately, partly because of this attitude, the agricultural economies of these countries have developed at a slower rate than the industrial ones. In general, stagnated, their populations expanded rapidly. As a result, it became clear in the 1960's and 1970's that the world was facing a severe food shortage.

With increased awareness of the great importance of securing adequate food production, substantial resources were devoted to improving agricultural yields. There was much research in such areas as how to improve crop varieties, cheaper methods of making fertilizer, and irrigation. Also, there were both local and international efforts to induce the farmers of the Third World to adopt the new modern techniques over their less efficient traditional practices. According to Dr. Yudelman, the result has been a "historic" increase in crop yields to unprecedented levels. Also, though total population continues to increase, its rate of growth has declined substantially, and per capita food output has become larger today than it was ten years ago.

While recognizing this success, Dr. Yudelman also cautioned against over-optimism. In sub-Saharan Africa in particular, agricultural production has not kept pace with its population's growth. It has fallen in the tropics, especially in Asia. Furthermore, in many places poverty is so extreme as to cause widespread malnutrition even though food is available in adequate quantities. There is still cause for concern about the future. New growth and the social and economic disruptions it could cause, and environmental degradation also remains an important issue. Despite such long-term problems, though, the outlook for world food surplus seems brighter now than it has for well over a decade.

Booth Ferris Donates Funds for Research

[CNB]—Caltech has received a $100,000 grant from the Booth Ferris Foundation of New York City. The gift will be used to create the Booth Ferris Discretionary Fund for Research and Education at Caltech. It will support innovative scientific and engineering projects that are in the early stages of development. "The gift to support new and original research ventures at Caltech reaffirms the support the Booth family and the Foundation have extended to Caltech for the past generation," said Caltech's president, Dr. Marvin L. Goldberger. "The discretionary award creates new opportunities for Caltech to support and forward-looking research during the crucial early stages that are essential to a project's future success."

"The donation to Caltech is the fourth from the Booth Ferris Foundation, whose previous gifts to the Institute include a $350,000 grant in 1982 and a $500,000 grant in 1968 to establish and outfit the Willis H. Booth Computing Center, and a $200,000 contribution in 1976 to help support construction of the Thomas J. Watson, Sr. Laboratories of Applied Physics.

The Booth Ferris Foundation was established as the Booth Foundation in 1957 with a trust from the estate of Mr. Willis H. Booth and a trust instituted by Mrs. Chancie Ferris Booth. Mr. Booth, who died in 1958, was a director of IBM and a member of The Booth Associates. The combined trusts created the Booth Ferris Foundation in 1964. The Foundation supports programs in higher education, social and public service, and cultural affairs.

$1 Million From Irvine Foundation Caltech Equipment Ready for Renewal

[CNB]—The James Irvine Foundation of San Francisco has awarded Caltech a grant of $1,000,000 to support the Irvine Fund for the Renewal of Scientific Equipment at Caltech. The gift will be used to purchase equipment to carry out advanced research and training in science and engineering. The award is the second equipment grant from the Foundation, which established the Irvine Fund at Caltech with a $1,000,000 contribution in 1984.

"Once again, Caltech is the beneficiary of the remarkable vision and support of the Irvine Foundation," said Caltech President Marvin L. Goldberger. "The renewal grant helps us continue to sustain the environment and facilities that have produced some of Caltech's finest science and engineering achievements.

Since its establishment in September 1976, the Irvine Fund for the Renewal of Scientific Equipment has provided support of a broad spectrum of new equipment. Caltech research projects that have benefited from it range from seismology engineering to radio astronomy. The new grant will be used to purchase equipment for pioneering studies in a variety of fields, including projects aimed at the development of a new approach to cancer chemotherapy and more like biological neural systems."

James Irvine Foundation was created in 1937 by the late James Irvine, a member of the Orange County rancher and philanthropist. It provides financial assistance to not-for-profit educational and community organizations of higher education in California. The Foundation contributes funds to programs in higher education, medicine and engineering, youth programs, community service, and cultural activities.
China: End of Liberalization

by Manasseh Jain

The Chinese Communist party on Tuesday tactfully eased its political liberalization and reform.

A month ago, in a speech before the National People's Congress (NPC), committee chairman Peng Zhen had criticized the reformists, who he said had denigrated the Communist ideal. He defended the superiority of socialist democracy, scoffing at monopolistic capitalism and bourgeois democracy. His speech contrasted sharply with speeches and articles on political reform by academics and younger party leaders. His criticism of the pace and extent of the recent reforms were clearly directed at elder statesman Deng Xiaoping and Premier Zhao Ziyang, though he carefully avoided any position that could be construed as factional opposition within the party.

Last week the situation came to a head with widespread unrest and protests, despite an official ban on them. Over 2000 angry students and teachers marched across an icy Tiananmen Square shouting for democracy, chanting slogans like “You cannot arrest us,” and “The time to be afraid is past.”

With such unprecedented defiance and boldness, the students have perhaps unexpectedly contributed to the end of China’s liberalization. Deng, not wanting to be associated with the students’ increasing recklessness and perhaps under pressure from a handful of powerful party conservatives, who have expressed alarm at the speed of his reforms, had no choice but to halt his reforms and give new importance to “bourgeois liberalism.” His action is reminiscent of that in 1956, under Mao’s leadership, when Mao initiated a “hundred flowers” campaign (to encourage free speech) but within a few months, stung by the outpouring of dissent, not only reversed the campaign but interrogated and arrested certain academics who had spoken out. While the regime still intends to proceed with economic reforms and its policy of opening to the outside world, intellectuals have been notified of their desire to discuss political ideas or questioning the party, the Communist party. Deng himself continues to ignore completely the discussion of democracy, the right to dissent or any checks upon the power of the Communist party.

However, last week rallies and Peking’s unprecedented tolerance coupled with the students’ continuing boldness, which they would display only if they perceived sympathy at higher levels, may reflect a turning point in Chinese politics.

News In Brief

by Hanosk Chang

* The Soviet Union declared that it would end its unilateral moratorium on nuclear tests if the U.S. conducts another. The U.S. Department of Energy has scheduled the next test for Feb. 5 at a site in Nevada.

* Israeli nuclear technician Mordechai Vanunu, under trial for telling Israeli news agencies about the Israeli nuclear weapons project, has begun a hunger strike, according to his brother. Vanunu is reportedly protesting his conditions in prison, where he has to spend 23 hours a day in solitary confinement.

* The Salvadoran military announced on Jan. 6 that it had stopped a guerrilla raid on a nuclear power plant.

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The Outside World

The Outside World

To the Editors:

Regarding “Soviet Invasion of Afghanistan” (4th January 1987), we believe that it is now time to stop the perpetuation of misinformation.

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**The Inside World**

FRIDAY 16 JANUARY 1987

**The Johns are getting it this year. John Bowers was given a bullet in his reliability of Page House. Fish fell in with him but didn't get wet. Score: Fish 3, Bowers 0.**

To the dismay of some (and the amusement of others), Vinnie F. decided to grace the ballot with his name again this year. He even changed his party status, possibly in an effort to brighten up your vote with another term as Page Whittaker. Some lowlifes from Whittier came by the tech store and getting lit. Next time they come through Page they get the living shit kicked out of them. We have reason to believe that these cut/cop's are responsible for the large hickey (Mickie) doesn't remember how he got it.

And last, but certainly not least, Marc Gladstein has been picked up by the working citizen. Hence, they are no longer at your disposal, and Pussy Alley is now regularly shaken with 300 watts of love. Screw anyone who doesn't appreciate it.

Final addendum: Mega passed Lit.}

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**R U a hip type of guy?**

**Page House President.**

---

**Riddle:** "So," you might ask, "what is the First Annual Page House Trivia Test. If you can correctly answer all of these questions you're a hip type of guy (or girl)."

**Question:** "What is the biggest dick on campus?"

**Answers:**

- a) David Bruning and John Bowers
- b) Sean Trabosh
- c) Kevin Pond and Kenny Valentine

---

**Question:** "Who first said, "Page House has the biggest dicks on campus"?"

**Answers:**

- a) Kevin Foam
- b) Ed Zanelli
- c) Nancy Embrow

---

**Question:** "An alley in Page was named Pussy Alley because it had the most:

- a) cats
- b) girls
- c) squirrels
- d) other

**Answers:**

- a) cats
- b) girls
- c) squirrels
- d) other

---

**Question:** "How to Pull Serious Hardcore Bitches"

**Answers:**

- a) Enjoy it; you're getting more
- b) Sucks
- c) Sucks the big dick

---

**Question:** "The Johns have always been the only two

**Answers:**

- a) Vito Ferrante
- b) Ed Zanelli
- c) Dick!

---

**Question:** "If you have a cock that's 10% the word that characterizes the dominant

**Answers:**

- a) Enjoy it; you're getting more
- b) Sucks
- c) Sucks the big dick

---

**Question:** "The God-King Fleming Ultimate Frisbee Team is well on its way to rolling up another

**Answers:**

- a) David Bruning and John Bowers
- b) Marc Gladstein and Rico Horneman
- c) squatters

---

**Question:** "The occupation didn't put much of a damper on the ski trip, though. We dined like kings on the fine imported spaghetti from Leningrad. Skiing might have been better if the rationing hadn't limited it to one ski per person."

**Answers:**

- a) Enjoy it; you're getting more
- b) Sucks
- c) Sucks the big dick

---

**Question:** "The ancient R'hum-px ritual was completed. Totally exhausted, the High Priestess

**Answers:**

- a) Vicki Lane
- b) Richard "Mega" Mgrdechian
- c) Robert "Ballies Bob" Makish

---

**Question:** "Some of these questions are experimental and will not count toward your final score.

**Answers:**

1) Chris Brennen's "favorite" Aussie is:

- a) Ha
- b) Hoy
- c) Power

2) Dick!

3) John Bowers' "favorite" diet consists of:

- a) Ha
- b) Hoy
- c) Power

4) I, myself, was knocked unconscious in the confusion. When I came to, I was handed

**Answers:**

- a) Ha
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ELDEC

DIVERSITY IS STRENGTH

Diversity. It allows ELDEC to offer varied, challenging job opportunities in high technology electronics. Quality, custom-designed products and innovative problem solving have earned us a strong position in aerospace and marine markets for both commercial and military customers.

An established corporation with over $90 million in annual sales, ELDEC is located just north of Seattle which means employees enjoy the unmatched lifestyle of the beautiful Northwest.

ELDEC systems cover a wide range of customer needs. Our solid state proximity switches and computer-based logic and control systems inform flight crews of critical aircraft functions. ELDEC produces small, lightweight, ruggedly packaged aircraft battery charger systems and high and low voltage power supplies.

We’re also involved in the design and manufacture of electronic monitor and control systems for aircraft, ships and space vehicles.

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We will be on campus for interviews on January 19. Contact your placement office for details.

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If you are in the top 10% of your graduating class and have academic credentials to brag about (great GPA, high school valedictorian, National Merit recognition, et cetera), then you should talk to Oracle about joining the best. Oracle is the fastest-growing software company in the United States and the creators of ORACLE, the number-one Relational DBMS that has been chosen over IBM and DEC by users polled in the Software News Users Survey.

Last year I hired over 50 of the top graduates from the finest schools. This year I am looking for even more graduates for every area of Oracle, including: Development, Sales, Support, Marketing, Consulting, Finance, and International.

If you want to discuss opportunities at Oracle, sign up for an interview or call directly (be sure and leave a message if I am unavailable). We will be recruiting on campus on January 23. Please see the placement office for details.

Larry Lynn
Director of Recruiting
Oracle Corporation
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Belmont, California 94002
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- Exceptional Compensation
  We pay exceptional salaries for exceptional employees. We offer complete medical/dental/life coverage, and flexible hours, and every employee, through our stock option program, has equity in the company.

- Fascinating and Challenging Work
  We need to staff development, marketing, and support positions to work on projects in distributed database, interactive graphics, and networking of heterogeneous computers, to name a few.

- Exposure to the latest and most advanced technology
  We already offer products on Suns, Apollos, MicroVAXes, and almost every IBM machine including personal computers and the RT PC. Today we are developing products using technology that is not yet in the marketplace.

- A superior work environment
  Oracle is headquartered in a new building in the rolling hills overlooking the beautiful San Francisco Bay. Additionally, we have offices in most major cities in North America, and subsidiaries in all major markets worldwide.

- A superb group of peers
  Company-wide, we hire only the best and the brightest from the finest of schools. When you work at Oracle, everyone you work with is a Top Gun Graduate.

- A sign-on bonus
  If you meet the Oracle standard of excellence, you may be eligible to receive a one-time bonus equal to 10% of your annual starting salary.

Fastest Growing Software Company in the United States Seeks Top Gun Candidates
Hockey Slaps USC

by Jason

The Caltech hockey team started the second half of the season on a winning note, beating USC 6-4. The game was played at Ontario which is easily the worst rink I have seen in California. With the blue lines only about 30 feet apart, it promised to be a relatively high scoring game. And it was.

The opening period was pretty even with both teams scoring one goal. In the second period Caltech broke the game wide open out-scoring USC four to one. The Beavers added another goal in the third period. Everyone got in on the scoring. Phil Askenazy got a hat-trick. Jim Berg, the team gimp, got in on the action. Dwight and a USC coach did excelent zebra imitations when the referees decided to take a holiday.

The Caltech ratio strikes again. The Beavers are now the only Division II team that doesn’t have a female player. Our next game is Wednesday night at 10:35pm against Cal State Northridge in Burbank. Watch the battlin’ Beavers try to construct a winning streak.

New and Improved Interhouse Ultimate Schedule

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from page 3

Movie of the week: Pretty in Pink (a Vax Starfish production). -Boz the Fresh
New Bi/Pych Course Offered

BI 154 (Topics in Experimental Psychology) will be given by Dr. Berta Jolzer, Sherman Fairchild Distinguished Scholar, on Wednesday mornings from 10:00 to 11:30 in 601 Beckman Labs, starting on January 28. The title of the lecture will be "The Role of Metaphors in Visual and Auditory Perception." 

Jazz At The Playhouse

The L.A. Times presents "North to Hollywood," an evening of soul, jazz and blues at the Caltech Playhouse. The M.C. will be L.A. Times critic Leonard Feather. Performing will be Grammy Award winners Superba, and the L.A. Voices.

This all takes place at the Pasadena Playhouse, 39 S. El Molino, on Saturday, January 24 at 8:00 pm. Ticket prices are $17.50-$6.25-$5.00-$4.00. For ticket information call 356-PLAY.

CALTECH public events

BALALAIKA EMANUEL SHEYNKMAN RETURNS TO CALTECH

Balalaika and mandolin virtuoso Emanuel Sheynkman returns to Caltech Saturday at 8 p.m. in Beckman Auditorium. Drawing on such diverse sources of repertoire as Russian folk music, Bohemian songs and even Scott Joplin rags, Mr. Sheynkman's outstanding technical and interpretive skills are sure to create a memorable evening.

One of the world's finest ensembles, the EMERSON STRING QUARTET continues the Coleman Chamber Music Series on Sunday at 3:00 p.m. in Beckman Auditorium. Inanimate group will perform all-a-Beethoven program including Quartet in E-Flat Major, Op. 4; "The Hartq", Quartet in F minor, Op. 95 ("Scherzo"); and Quartet in E-Flat Major, Op. 127.

There are a limited number of free tickets to $60.00 each available for this Coleman Concert. (Limit one free ticket and one at $6.00 per CIT I.D.) Regular ticket prices are $15.00-$13.50-$12.00-$10.00.

Next Friday, January 23, you can hear our own CALTECH WIND ENSEMBLE in a POPS AND CONCERTO CONCERT. It will begin at 8:00 p.m. in Ramo Auditorium. Admission is free.

MORCA DANCE THEATRE will bring the excitement of Flamenco to Caltech as they stage the first of Beckman Auditorium, Saturday, January 24 at 8 p.m. A world-class troupe of exponents of the Flamenco, the art, music, song and dance of Southern Spain.

CIT student prices for Emanuel Sheynkman and for the Morca Dance Theatre are priced at $7.50-$6.25-$5.00; CIT student mat tickets; $6.00 on Saturday. CIT faculty and staff prices are $14.00-$12.50-$11.25; and public prices are $20.00-$17.50-$15.00.

For further information about the exciting Public Events scheduled this season, call campus ext. 4652.

Meet America's Top-rated Aerospace Employer.

Talk with our representatives about why in 1985 The Almanac of American Employers rated Lockheed second overall among America's largest, successful companies. Tops among aerospace firms. And talk about career opportunities at Lockheed. And about our famed "Skunk Works" facility where we developed the SR-71 blackbird and so advanced, it's still the world's fastest, highest flying airplane in sustained flight.

Just sign up in your placement office and mark this date on your calendar:

Interviews — January 27

You'll see why we're a company with a remarkable history. And a future as promising as your own.

We offer equal opportunity, affirmative action employer. U.S. citizenship is required.

Career Counseling

A Career Counseling program on "Careers in Mechanical Engineering" will begin at 7:00 p.m. on Wednesday, January 21 in the Red Door Cafe. Undergrads and grad students welcome. Sponsored by the Gnome Club and the Alumni Association. Refreshments will be served.

Indian Fellowship Program

The Indian Fellowship Program is being offered through the Department of Education. To apply you must supply proof of Indian identity, transcript, a financial aid statement, and be a full-time undergraduate of graduate student studying engineering, business administration, natural resources, and related fields. For application and further information contact the Financial Aid Office, 12-63. Closing date is February 6, 1987.

Engineering Scholarship

Consulting Engineers announces their 1987 Scholarship Competition for under­

postgraduates in engineering.

To be eligible, a candidate must be a junior or senior as of fall 1987. It is in the upper half of his or her engineering class, if working for a B.S. degree in Engineer­

ing, interested in Consulting Engineer­

ing as a career, and (c) a U.S. citizen.

Engineering students with strong academic and extracurricular qualifications who meet the requirements are invited to obtain an application form and information from the CEAC office in Sacramento by calling (916) 442-2372. Applications must be received no later than February 16, 1987.

University of Arizona

The Department of Systems and In­

construction at the University of Arizona offers outstanding opportunities for graduate study at all levels. Financial sup­

port is available for outstanding students. Positions which receive fellowships, or assistantships are exempt from out-of-state tuition charges. If you have any questions, please call (520) 621-6532.

SWE Scholarship

Women majoring in engineering are eligible to apply for the 1987-88 Society of Women Engineers Scholarship. Applicants must have an overall grade average of 3.5 and 4:30 p.m.; subject to availabili­

ity and limit 2 tickets per CIT I.D.

For further information about the exciting Public Events scheduled this season, call campus ext. 4652.
SURF's UP! Application forms are now available in the SURF Office, Room 166. Professor Edward Posner, who heads the program, has announced that there will be $1000 in prizes. The SURF Office has a notebook with descriptions of a few possible projects. Deadline for proposal submission is Monday, March 2.

Chow Down! The traditional SURF kickoff dinner will be held this year on Tuesday, January 27, following the meeting. There will be a three-course dinner featuring Chinese, Middle Eastern, and Italian cuisine. Cost is $15 per person. To reserve, please contact the Student Advisory Committee.

Free Ensemble Concert The Caltech Wind Ensemble, directed by Bill Chow, will have its first concert on Friday, January 21, at 8 pm in Ramo Auditorium. The two solos on this concert will be Eric Bahon on oboe, and on clarinet on the bass trombone. Seats are first come, first seated, so plan ahead if you want to guarantee the best seats.

Guitar Classes Guitar classes for second term are meeting on Tuesday in Wannen Room as follows: Beginning class, 4:30-5:30 pm; Intermediate class, 7:30-8:30 pm; Advanced class, 8:30-9:30 pm.

Mammoth Ski Trip The Caltech Ski Team will be taking a Mammoth Mountain trip for $77 and $87 at 7 am. We will meet in front of the Y. Students will have to transport their own equipment and any ski rentals if necessary. We will be returning Sunday afternoon. Contact Konstantin Othmer at X3976 for further information.

Science and Philosophy This week, two panels will be held on related subjects. On Thursday, Rabbi Abin J. Rosen, Ph.D., a professor of philosophy and historian, will be speaking on "Science and a Philosophy of Liberal Religion." The talk will be held in RC 242, Redhead Lab, and is free and open to all members of the Caltech community. For more information contact the Y.

Another Cooking Class On Monday, January 26 at 7 pm the Caltech Y will offer a third cooking class in a series of basic cooking classes. The theme for this class will be lasagna, a salad, and lemon meringue pie. Samples of all food will be provided. The cost is only one dollar. Sign up in the Y signin to participate in this class. You can sign up at any time before the class, even if you missed the last one.

MacVeY Meets The Caltech MACVEY group will meet on Thursday, January 29 at 5-7:30 pm in the cafeteria of Burbank High School at 400 E. Broadway. Dinner will be provided. At 7:30 pm, the group will hear from Josephine de Karman, a member of the MacVeY group at MIT Lincoln Laboratory. She will discuss her work in the elaboration of beams.